

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

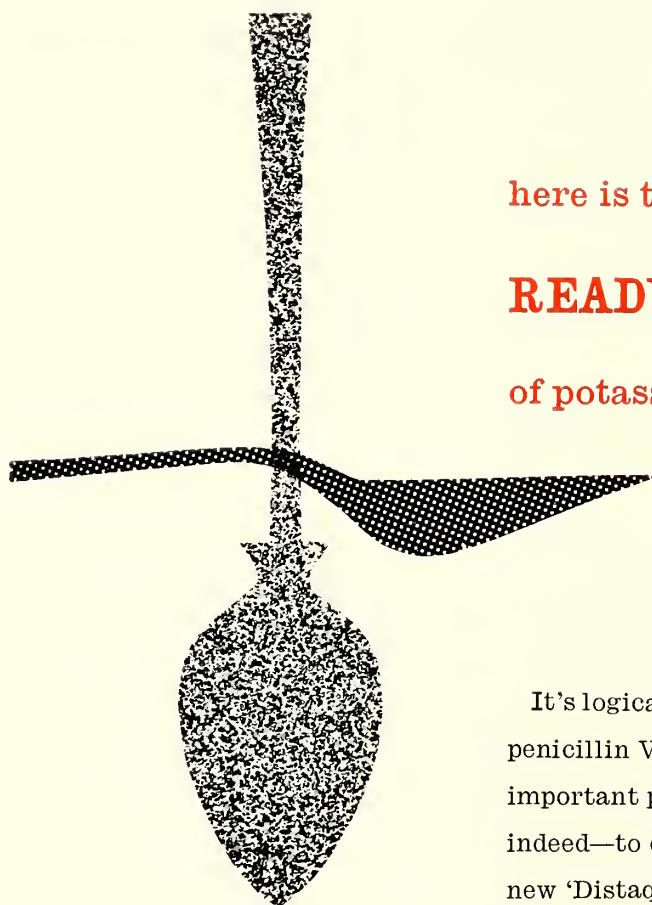
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 174

July 2, 1960

No. 4194

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The CHEMIST AND DRUGGIST

Volume 174

JULY 2, 1960

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Records Broken

WORK OF PATENT OFFICE IN 1959

EXCEPT for registration of designs, the business of the Patent Office during 1959 exceeded all former records. There were 44,495 applications for patents (42,277 in 1958); 23,025 provisional specifications were filed (22,725); complete specifications numbered 33,653 (30,878), and 18,157 (18,531) patents were sealed. Patents fees amounted to £1,332,617 (£1,231,814); designs fees £20,598 (£19,541) and fees for trade marks amounted to £133,656 (£118,397). These details were given in the seventy-seventh report of the Comptroller-General of Patents, Designs, and Trade Marks (H.M. Stationery Office, 1s. 6d.). The Comptroller states that because of difficulties in recruiting qualified staff it had not been possible to keep pace with the continually increasing number of complete specifications received. By the end of 1958 there were 36,718 unexamined complete specifications, yet at the end of 1959 the arrear was no more than 37,068, despite the increased number submitted. Dealing with the trend of invention during 1959 the Comptroller refers to the development of steroids having improved physiological properties. In other synthetic drugs, the chief activity was in those relieving pain, especially in rheumatic conditions, for relieving spasmodic contractions of the muscles, and for lowering blood pressure. He refers to the isolation of Cephalosporin C. During the year 8,879 trade marks were advertised (7,944 in 1958); 6,145 (6,508) trade marks were registered in part A and 842 (742) were registered in part B. The number of trade marks registered in 1959 was artificially low because the printing dispute interfered with the advertising of applications. The increased interest in trade marks was thought to arise from the increased advertising of consumer goods and a general tendency to seek a trade mark for each new line rather than for a manufacturer to cover a whole range of goods with one trade mark. There were 951 trade marks advertised in class 5 of the register (pharmaceutical, veterinary and sanitary substances, infants' and invalids' foods, etc.) and 711 marks were registered. The figures for 1958 were 816 and 732.

Exhibition Success

NEW YORK DOLLAR DRIVE

THE British Exhibition, New York, during June was said, by Lord Rootes (one of the joint exhibition chairmen) upon his return, to have been an outstanding success. Many American companies sent visitors and one company took 1,500 tickets for the use of

its staff. Registered buyers totalled over 30,000 and the Dollar Council and Federation of British Industries' joint stand had 10,000 inquirers who left their names and addresses. There was a vast market for British goods on the Pacific Coast, Lord Rootes said, and he was pleased to report the receipt of a wide range of inquiries from many parts of the United States. Competition from European, American and Japanese manufacturers however was fierce and considerable effort was required from British business men to extend their business. At the Northern Ireland Development Council's stand on the closing night it was announced that two big American companies plan to expand their plants in Northern Ireland. They are E. I. Du Pont De Nemours & Co. and the Chemstrand Corporation.

Medicines Legislation

BOROUGH COUNCILS' PROPOSALS

THE Association of Municipal Corporations, representing borough councils, has informed the Interdepartmental Working Party on Legislation concerning Medicines, of its concern at the "increasing tendency" of drug firms to issue drugs and capsules that can readily be confused with sweets. It recommends that there should be standardisation of the appearance of drugs and that surfaces of tablets and capsules be marked so that persons with a key to these markings can

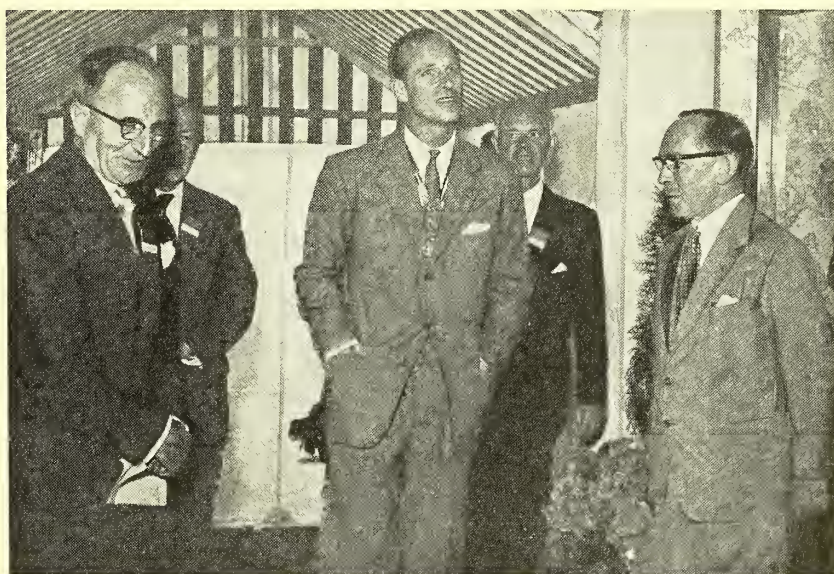
readily identify them. The association also refers to a tendency from time to time for substantial accumulations of medicines to occur in patients' homes and private maternity homes which may be a temptation to nursing staff for relief of personal pain. On this, the association's memorandum states: "We consider that better control would be exercised in the prevention of possible drug addiction among nursing staff by arrangements whereby midwives use their own pethidine, etc., which is replenished by the issue of prescriptions equivalent to that used by their patients. Some stricter control of the drugs of addiction would seem to be necessary."

It suggests no amendments so far as sampling is concerned. In its view, both the Pharmacy and Medicines Act, 1941 and the Food and Drugs Act, 1955, give adequate cover to either deficiencies in ingredients or labelling offences. But it believes that modification is necessary in Section 135 of the Food and Drugs Act, 1955, to deal with cases where the substance sold is not a food or a drink in the accepted sense, and which does not come under the heading of a drug.

Brush Manufacturers

DISCUSS COSTS AND PRICES

THE rising cost of Chinese bristle, and the inevitable increase in the price of certain brushes, were among items discussed by the delegates at the annual conference of the British Brush Manu-



DUKE SEES PHARMACEUTICAL EXHIBITION: Mr. Herbert Palmer (president, Association of British Pharmaceutical Industry, right) was presented to the Duke of Edinburgh, whom he conducted round the exhibition of pharmaceutical products at the annual meeting of the British Medical Association in Torquay on June 20.

facturers' Association at Llandudno recently. Mr. R. A. J. Palmer (president) said that he felt that manufacturers had no alternative but to increase their selling prices, as any delay in doing so must inevitably weaken the financial structure of the industry. In his address to members, he referred to the Restrictive Trade Practices Act, and the rumours that the right of manufacturers to fix the retail selling price appeared to be questioned. He also referred to the fact that the Act was being interpreted in such a manner as to make it extremely difficult for any industry to justify their normal trade practices, and urged that efforts should be made to obtain an amendment so that agreements could be upheld if they were shown to be not contrary to the public interest.

Antioxidants in Food

REGULATIONS TO BE REVIEWED

THE Government is to review the Antioxidant in Food Regulations, 1958, and the Antioxidant in Food (Scotland) Regulations, 1958. The main points in the regulations to be considered are the kinds of antioxidants to be permitted, the foods in which they may be used, the maximum allowance for permitted antioxidants, and labelling requirements. Before deciding whether, and to what extent, changes are necessary, the Government will give full consideration to any representations made by interests concerned. Such representations should be addressed to the assistant secretary, Food Standards Division, Ministry of Agriculture, Fisheries and Food, Great Westminster House, Horseferry Road, London, S.W.1, or to the secretary, Department of Health for Scotland, St. Andrew's House, Edinburgh. 1, to arrive not later than December 31.

National Insurance

GRADUATED CONTRIBUTIONS BY P.A.Y.E.

EMPLOYERS throughout Great Britain are to receive a four-page leaflet outlining the arrangements for collecting the graduated national insurance contributions from April 1961. Stamps and cards, as well as the other approved methods of payment, will continue to be used for paying the flat-rate contributions due for all employees. But the graduated contributions for those employees who are earning over £9 a week (and who are not contracted out of the graduated contributions and pensions) are to be collected through the P.A.Y.E. system in association with income tax and paid with the monthly tax remittance.

Mission from Cairo

RENEWING CONTACTS WITH BRITAIN

AT the invitation of the Board of Trade a party of United Arab Republic businessmen has been visiting Britain. The purpose of the mission is to renew trade contacts and examine the prospects of increasing trade both ways between the United Kingdom and the United Arab Republic. The tour follows a visit to the U.A.R. by a party of British businessmen earlier this year

for a similar purpose. The mission consists of nine members and eight advisers under the leadership of Mohamed Rouchdy (chairman and managing director, Egyptian Bank Mistr), and represents a wide range of trading interests, including pharmaceuticals.

Retail Sales

BOARD OF TRADE FIGURES

RECENTLY issued Board of Trade statistics show that sales of chemists' goods by independent retailers in April were 7.2 per cent. higher than in March and 4 per cent. higher than in April 1959. Multiple retailers' sales were 10.4 per cent. higher in April than in March and 18 per cent. higher than in April 1959. Sales by Co-operative societies were 5.8 per cent. higher in April than in March and 3 per cent. higher than in April 1959. The figures do not allow for receipts under the National Health Service.

Washing Facilities

FACTORY REQUIREMENTS EXTENDED

FROM August 1 factory owners and occupiers in Great Britain will have to include running hot and cold or warm water among the facilities for washing for employees under the Factories Act, 1959 (Commencement No. 2) Order, 1960, made by the Minister of Labour on June 21. At the same time the Minister laid before Parliament the Washing Facilities (Running water) Exemption Regulations, 1960. These exempt until August 1, 1961, all factories employing five workers or less from the requirement to provide running water for washing.

Dangerous Drugs Act

AN AUTHORITY WITHDRAWN

AUTHORISATION to be in possession of or to supply or prescribe Dangerous Drugs has been withdrawn from Leonard William Robinson, 228 Stonor Road, Birmingham 28.

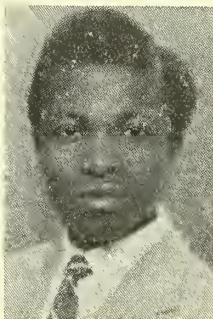
IRISH NEWS

THE REPUBLIC

Ghanian Pharmacist

FIRST AFRICAN TO QUALIFY IN DUBLIN

THE distinction of being the first African to qualify as a pharmaceutical chemist — and as an optician — in Ireland has fallen to Julius Tetteh Larnor Darko. Aged twenty-six, Mr. Darko was born in Odumase-krobo, Ghana, where his parents were engaged in the cocoa plantations that are the main source of Ghana's wealth. Mr. Darko received his primary education at Akro State School, and completed a five-year



secondary course at Achimota College, a few miles from Accra, in 1950. Famous ex-students of the school include the Prime Minister of Ghana (Dr. Kwame Nkrumah) and the Minister for Finance (Mr. K. A. Gbedema). In 1951 Mr. Darko was a teacher at Akro school, but was strongly attracted to pharmacy and in 1952 joined the West African Drug Co., Ltd., Accra, as a pupil. Two years later he came to Dublin to pursue his pharmaceutical studies in the College of Pharmacy, Shrewsbury Road, serving an apprenticeship with Hayes, Conyngham & Robinson, Ltd., Grafton Street. He took his finals in July 1959 and in February. At present he is at University College Hospital, London, where he is gaining further practical experience. During his pharmacy course Mr. Darko also took a course in ophthalmic optics in the College of Technology, Kevin Street, Dublin, and afterwards gained practical experience with Newbold (Ireland), Ltd. His interests include dancing, hockey and soccer, and he is also a keen photographer. He intends to return to Ghana in the Autumn.

IRISH BREVITIES

THE NORTH

MR. H. West (Parliamentary Secretary to the Minister of Agriculture for Northern Ireland) was present at a luncheon on June 15 to mark the completion of a new Sanatogen plant recently erected at Coleraine, co. Derry. On his arrival he was met by Sir Clavering Fison (chairman of the Fison group) and other directors.

A "MURDER" hunt, organised by the social sub-committee of the Associates' Section, Ulster Chemists' Association, held on June 15, was won by Mr. W. A. Hall. Second was Mr. G. Bryans.

OVERSEAS NEWS

BELGIUM

Co-operative Chemists' Movement

BELGIAN Co-operative Pharmacies group report for the year recently ended shows that there are 249 pharmacies in the group or eight more than in the previous year. The group employs 1,301, of which 257 are qualified. In addition 38 optical departments are operated.

FRANCE

New Drug Rules

A NEW law introduced in France recently requires that drug producers obtain two official permits before they can manufacture or sell pharmaceuticals. The first permit, covering existing requirements for the drug itself, requires additionally, test data verifying the formula by qualitative and quantitative analyses. The other permit is concerned with the suitability and adequacy of the manufacturing operation and approval must be got before marketing can begin. Producers, however, have now only to show that a drug is beneficial to health whereas formerly they had to prove that their product was new or was used for a new purpose. A drug patent system is also being implemented.

NEWS IN BRIEF

THE Board of Trade is considering an application for the removal of the import duty on aluminium lithium hydride.

To appear in mid-July is the first issue of *Chemotherapy Review*, successor to *British & Overseas Pharmacy & Medicine* (which it incorporates), first published in its original form by the British and Colonial Druggist, Ltd., in the 1880's.

THE European Free Trade Association (Origin of Goods) (Amendment) Regulations, 1960, published June 24 (S.I. No. 1043), make certain minor additions and amendments to the European Free Trade Association (Origin of Goods) Regulations 1960 (see *C. & D.*, May 7, p. 528).

MANY of the sixty exhibitors at the Laboratory Apparatus and Materials Exhibition, held at the Royal Horticultural Society's New Hall, Westminster, London, S.W.1, during June 20-23, were familiar to pharmacists. It was the first exhibition dealing primarily with laboratory equipment and a wide variety of furnishings, scientific apparatus, chemicals and glassware was on show.

THE Association of British Manufacturers of Agricultural Chemicals, has issued a booklet showing the provisions of the Pharmacy and Poisons Act 1933, and the Poisons Rules 1960, relating to the sales of insecticides, fungicides, weedkillers and rodenticides. The booklet replaces the chart formerly issued by the Association. Copies may be obtained from the offices of the Association, Cecil Chambers, 86 Strand, London, W.C.2 (three shillings each post free; cash with order).

A DRAFT Statutory Instrument has been prepared amending the National Health Service (Superannuation) Regulations, 1955. It provides for the making, by employing authorities, of a supplementary contribution towards the cost of superannuation benefits provided under the National Health Service superannuation scheme. Another change is to restrict the right to receive interest on superannuation contributions in certain circumstances when employees leave the service. The proposed title is The National Health Service (Superannuation) (Amendment) Regulations, 1960. A similar draft Statutory Instrument has been prepared for Scotland.

A NUMBER of cameras were stolen from Evans Medical, Ltd., Ruislip, Middlesex, on the night of June 27-28. The following are the numbers of Ilford Sportsman cameras, Pronto 2.8, that were taken: C.123286, C.128455, C.123288, C.123280, C.123303, C.128426, C.123298, C.116696, C.128441, C.123305, C.128433, C.115509, C.128460, C.128430, C.144008, C.144000, C.143992, C.143977, C.143995, C.144017, C.144002, C.143996, C.143968, C.116949, C.115921, C.116695, C.116689, C.128585, as well as a quantity of Ilford Sportsman Vario 2.8 cameras the following were also stolen:—Ilford Sportsman cameras, Prontor SVS 2.8: D.129498, D.129536, D.142178, D.129501, D.129494, D.142183, D.129474, D.129505, D.152888, D.143454, D.143548, D.142905, D.142922, D.129504.

TOPICAL REFLECTIONS

By Xrayser

Normality

Those who live in these islands find some difficulty in appreciating the situation of the Australian who, perforce, celebrates Christmas, with its traditional fare, in a temperature reaching the nineties. Something of the same feeling arose in September of last year, when the Annual Special Issue of the CHEMIST AND DRUGGIST made its bow while russet leaves drifted gently to the ground, for readers had become accustomed to receiving their copies on or about midsummer's day. The situation has reverted to normal this year, the reader having just enough time to glance at the Press reports from Wimbledon and Lord's before the postman arrives with the treasure which alone is worth the annual subscription. Such is habit and tradition. But not for the first time I pictured the possibility of such a change in our climatic conditions as to permit of the arrival of pharmacy's annual feast of good things on a morning when icicles hang by the wall, and one could look forward to pulling up an armchair to the fire on a long dark evening and surrendering oneself to the contents while the snow drifted in the outside world. (I am assuming, you will notice, that nothing short of a climatic upheaval could bring this about.) Still, it has been pleasant to browse through the fascinating material in a deckchair, with no competition from swollen Christmas numbers decorated with holly, robins and bobsleighs.

The contents

Missing, alas, is the name of Dr. Charles Singer, who, for many years, adorned the subject of medical and pharmaceutical history, and whose contributions were of such outstanding quality and erudition. His death is a loss to pharmacy, but past issues of the annual give permanent and abundant evidence of his gifts. (Incidentally, it occurs to me that those studying that part of Section K of the revised examination syllabus relating to pharmaceutical history might well find much material in the editions of the Annual Special Issue.) But, despite the loss of Dr. Singer, there are fortunately other historians of enthusiasm and knowledge, whose work is displayed to advantage in the Annual Special Issue. I was reminded, on reading the article of Professor McKinney on early tranquillisers (and, possibly, anaesthetics) of the difficulties faced by Professor Sir James Y. Simpson when he introduced chloroform into his practice. The strongest antipathy was shown by the clergy, who denounced the use of anaesthesia as an interference with the laws of Providence! Simpson, an extremely religious man himself, reminded his critics of the scriptural occasion when Adam was put into a deep sleep for the removal of a rib. Simpson's interests were wide and varied, and he was an antiquarian and archaeologist of the highest rank.

Apprenticeship

In a paragraph last week, I referred briefly to apprenticeship and practical training. The article by "Galenethical" (p. 795) must have brought back memories to many who learned the elements of their craft close on forty years ago. It may be that much of what your contributor found himself compelled to do was of little academic value in the examination room, but the product of such a variegated environment was essential knowledge in the whole vast field of what constituted retail pharmacy. No college could have taught him more than a fraction of the information acquired during three formative years and, despite the hardships encountered, the author must have had occasion to be grateful for the experience gained. It is manifestly impossible to range over the whole of the delights of the Annual Special Issue, but I feel sure that your readers will devour the contents gratefully, and that the volume will find its way on to the bookshelf in company with previous numbers. A "run" of such numbers constitutes a priceless anthology of the history of pharmacy, to which the enthusiast may return with the greatest profit on any occasion. The material is for all time.

Dental Prescriptions

A NEW LIST OF DRUGS

A NEW list of drugs that a dentist may prescribe on forms EC14 for patients under the National Health Service is included in the National Health Service (General Dental Services) Amendments Regulations, 1960, which came into operation on July 1. The complete list is as follows:—

Acetylsalicylic acid	Phenol
Alum	Potassium bromide
Benzoic acid	Potassium chlorate
Borax	Potassium perman-
Boric acid	ganate
Caffeine	Quinine sulphate
Calcium gluconate	Sodium bicarbonate
Calcium lactate	Sodium chloride
Chloral hydrate	Sodium perborate
Clove oil	Sodium sulphite
Magnesium sulphate	Tannic acid
Mercurous chloride	Zinc chloride
Phenacetin	Zinc sulphate

Capsules

Methylpentynol capsules, B.N.F.
Tetracycline capsules, B.P.

Draught

Chloral draught, Dental Practitioners' Formulary

Elixirs

Cascara elixir, B.P.
Chloral elixir for infants, B.N.F.
Any elixir containing methylpentynol as sole active ingredient

Emulsions

Chloroform emulsion, B.P.C.
Peppermint emulsion, B.P.C.

Gargles

Ferric chloride gargle, B.P.C.
Phenol gargle, B.P.C.
Potassium chlorate and phenol gargle, B.P.C.

Glycerins

Borax glycerin, B.P.C.
Tannic acid glycerin, B.P.
Compound thymol glycerin, B.P.C.

Inhalations

Menthol and benzoin inhalation, B.P.C.
Menthol and eucalyptus inhalation, B.P.C.

Lozenges

Benzalkonium lozenges, B.P.C.
Benzocaine lozenges, Dental Practitioners' Formulary
Compound benzocaine lozenges, B.P.C.
Formaldehyde lozenges, B.P.C.
Hydrocortisone lozenges, B.N.F.
Potassium chlorate lozenges, B.P.C.

Mixtures

Magnesium hydroxide mixture, B.P.
Magnesium sulphate mixture, B.P.C.

Mouth-washes

Alkaline phenol mouth-wash, B.P.C.
Compound sodium chloride mouth-wash, B.P.C.
Zinc sulphate and zinc chloride mouth-wash, B.P.C.

Paints

Brilliant green and crystal violet paint, B.N.F.
Compound iodine paint, B.P.C.

Poultice

Kaolin poultice, B.P.

Solution-tablets

Mouth-wash solution-tablets, B.P.C.
Sodium chloride solution-tablets, Dental Practitioners' Formulary
Compound thymol solution-tablets, B.P.C.

Solutions

Amaranth solution, B.P.C.

Surgical chlorinated soda solution, B.P.
Formaldehyde solution, B.P.
Hydrogen peroxide solution, B.P.
Weak iodine solution, B.P.

Tablets

Acetomenaphthone tablets, B.P.
Acetylsalicylic acid tablets, B.P.
Compound acetylsalicylic acid tablets, B.P.C.
Soluble acetylsalicylic acid tablets, B.P.
Acetylsalicylic acid and phenacetin tablets, B.P.C.
Acetylsalicylic acid and quinine compound tablets, Drug Tariff
Strong compound aneurine tablets, B.P.C.
Ascorbic acid tablets, B.P.
Calcium gluconate tablets, B.P.C.
Calcium lactate tablets, B.P.
Calcium sodium lactate tablets, B.P.C.
Calcium with vitamin D tablets, B.P.C.
Cascara tablets, B.P.
Compound cascara tablets, B.P.C.
Compound codeine tablets, B.P.
Codeine phosphate tablets, B.P.
Mercurous chloride tablets, B.P.C.
Paracetamol tablets, B.N.F.
Phenacetin tablets, B.P.C.
Phenacetin and caffeine tablets, B.P.C.
Phenindamine tablets, B.P.

Promethazine hydrochloride tablets, B.P.
Tetracycline tablets, B.P.

Tincture

Pyrethrum tincture, B.P.C. 1934

Waters

Chloroform water
Peppermint water

Barbiturates

Tablets or capsules of any barbiturate which are included in the Dental Practitioners' Formulary for the time being

Penicillin

Injections of procaine benzylpenicillin, whether or not containing benzylpenicillin
Penicillin injection, B.P.
Penicillin lozenges, B.P.C.
Penicillin tablets, B.P.
Phenoxymethylpenicillin capsules, B.N.F.

Phenoxymethylpenicillin tablets, B.N.F.

Sulphonamides

Tablets of any sulphonamide which are included in the Dental Practitioners' Formulary for the time being.

The regulations also provide for the employment of, and the responsibility for, dental hygienists by dental practitioners.

CHEMICALS IN AGRICULTURE

More "safe use" recommendations

THE Ministry of Agriculture, Fisheries and Food has amended the recommendations for the "safe use" of a number of compounds. The number of applications of Demeton-methyl (a mixture of demeton-O-methyl (2-ethylthioethyl dimethyl phosphorothionate) and demeton-S-methyl (S-2-ethylthioethyl dimethyl phosphorothiolate)) allowed on potatoes has been increased to "up to four applications each at 12 fl. oz. per acre."

The recommendations in respect of Diazinon have been extended to include the precaution that "a person who, as a result of using any organo phosphorus compound is under medical advice not to work with such chemicals should not use diazinon." The Ministry have amplified their recommendations concerning the use of diazinon on crops and now state that provided there is a minimum interval of fourteen days between last application and harvesting, the use of the compound on outdoor edible crops should present no hazard to consumers. Regarding indoor crops a minimum of two clear days is recommended between the last application and harvesting of mushrooms, and on cucumbers and tomatoes grown under glass. There is also a special note that "when using diazinon dusting powders on mushrooms care must be taken to avoid overdosing." These recommendations are provisional and are to be reviewed at the end of the 1960 season. The necessity to keep animals and poultry from sprayed areas for at least two weeks, is an additional recommendation as are also the recommendations regarding, avoiding contamination of neighbouring crops, ponds, streams, and the necessity for safe storage away from children and feeding stuffs.

The amendment in respect of phenylmercury salicylate aerosols concerns the safe disposal of used containers

which should be "punctured and buried, or otherwise safely disposed of after being washed out thoroughly with soap or detergent and water."

The Allisan dust recommendations have also been amended, the proprietary title in the text has been replaced by the open name 2,6-dichloro-4-nitroaniline. The proprietary product contains 4 per cent. of the compound. The application rates on lettuce grown under glass and intended to be cut before Christmas are: "Pre-planting ½ oz. of a 4 per cent. dust per square yard, applied once only at 2-3 weeks after planting." Recommendations for safe storage, the necessity to avoid contamination of ponds and streams are new recommendations.

For the first time recommendations have been issued for Reglone (9,10-dihydro-8a,10a-diazoniaphenanthrene dibromide) the new non-arsenical chemical that destroys potato haulm. Its use is not considered to present a hazard to operators, provided they observe the following precautions, which distributors are requested to include on their labels:

"If the eyes and skin are contaminated with the concentrate, wash immediately and thoroughly. Wash exposed parts of the body before eating, drinking or smoking and after spraying."

The use of the compound for potato haulm destruction at a rate not in excess of 2 lb. active ingredient per acre should present no hazard to consumers of treated crops. Warnings regarding contamination of crops, ponds and streams, the safe storage of containers away from children, livestock and food, and the safe disposal of used containers are also included in the recommendations which are to be reviewed at the end of the 1960 season.

Allisan dust is issued by Boots, Ltd., and Reglone by Imperial Chemical Industries, Ltd., and Plant Protection, Ltd.

NEW PRODUCTS

Contains Hydrocortisone.—William R. Warner & Co., Ltd., Eastleigh, Hampshire, announce the availability of Amisol-HC ointment. The ointment contains hydrocortisone acetate 0.25 per cent. in the established ointment formula. Amisol-HC is supplied in tubes of 10 gm.

An "Ideal" Denaturant.—A new bitter substance is offered by T. & H. Smith, Ltd., Blandfield Works, Edinburgh. It was discovered in the research laboratories of the company, is the subject of a patent application, and is being issued under the trade mark Bitrex. The makers claim that extended trials which have been undertaken indicate that Bitrex is an "ideal" denaturant.

Thalidomide with Hydrochlorothiazide.—The Distillers Co. (Biochemicals), Ltd., Broadway House, The Broadway, London, S.W.19, announce the introduction of Tensival tablets intended specifically for the relief of both the physical and nervous symptoms associated with the premenstrual tension syndrome. As side-effects from the ingredients are said to be uncommon, the product is claimed to be suitable for monthly routine use. Each tablet contains thalidomide 12.5 mgm. and hydrochlorothiazide 12.5 mgm. Tensival is presented in containers of twenty-five and 100, and the product is classified S.4 B. of the Poisons Rules (prescription only).

Men's Toiletries.—Lorie of Los Angeles, a division of Rexall Drug Co., Ltd., Morley Street, Loughborough, Leicestershire, have introduced a new range of toilet products specially for men under the trade mark Stag. As well as pre- and after-shave lotions the range includes a deodorant stick and after-shave talc.

Sun and Sunless Tans.—Rolls Razor, Ltd., Cricklewood Broadway, London, N.W.2, have acquired from the Drug Research Corporation, New York, U.S.A., sole British rights for Man-Tan (an indoor tanning preparation that is also an after-shave lotion) and Positan (a cream lotion for tanning indoors or outdoors and for protection during sunbathing). Man-Tan contains Protosol brand dihydroxyacetone. Both preparations are now available from wholesalers.

"An Improved Feeder."—Feedrite, Ltd., 300 Kingston Road, Merton Park, Surrey, are introducing an improved baby feeder for the greater retention of heat in baby feeds. Called the Feedrite "Extra" it comprises plastic container (as on the present Feedrite feeder), a new heavy-duty heat-retaining liner, and a wide-necked high density polythene bottle fitted with the Feedrite cap and flanged teat. The Feedrite dome fits over the cap and teat, so ensuring absolute hygiene, and that the teat is never touched by hand.

Automatic Electric Blanket.—Monogram Electric Ltd., Gatwick Road, Crawley, Sussex (a subsidiary of International General Electric Co. of New York, Ltd.), manufacture the Monogram automatic electric blanket. It is

used as an over blanket and is left switched on all night. Except for a sheet all other bed coverings can be discarded. An automatic control permits the user to set the blanket temperature according to individual requirements and that temperature is maintained irrespective of changes in the bedroom temperature. A "safety" circuit incorporated in the wiring of the blanket safeguards the user.

TRADE NOTES

In Tin or Bag.—Potter's glucose fruit pastilles are available from Potter & Clarke, Ltd., River Road, Barking, Essex, in 4-oz. polythene bag or $\frac{1}{2}$ -lb. tin. They are available in five flavours.

Change of Poisons Category.—A. Wander, Ltd., 42 Upper Grosvenor Street, London, W.1, state that their Triominic tablets and syrup are now in Part I and Schedule 7 of the Poisons List and Rules.

"Own-formula" Tablets.—G. O. Woodward & Co., Ltd., Larkhall Works, Morris Road, London, S.W.2, undertake the manufacture of medicinal tablets to customers' own formulas. They guarantee accuracy and quality of result and prompt delivery.

Piperazine Derivatives.—Lake & Cruickshank, Ltd., North Bridge Road announce that they are the United Kingdom agents for Rexolin Chemicals, Helsingborg, Sweden. Their range includes a number of piperazine derivatives.

Day and Night.—John Thompson, Ltd., have opened a warehouse at Central Place, Trinity Avenue, Llandudno equipped to provide pharmacists in North Wales with a quick delivery of a wide range of ethical and proprietary medicines, drugs, sundries and photographic materials. An Isophone night service has been installed to enable orders to be received outside normal working hours.

Correction.—The makers of Shadeine point out that an error

occurred in their advertisement in the *C. & D.*, June 25, p. 100. The retail price should read 4s. 6d. and not as stated. The telephone number of Macarthy's (Wholesale Chemists), Ltd., Pollard Street, Ancoats, Manchester, 4, was wrongly given on the outside back cover of *THE CHEMIST AND DRUGGIST Quarterly Price List*, June 1 issue. The correct number is Ardwick 5131.

Sales Organisation in Britain.—The directors of Parfums Dana, s.a.r.l., Neuilly-sur-Seine, France, announce the formation of a new sales organisation in the United Kingdom. Under the direction of Mr. A. Bryden-Brown the organisation, Dana Sales, Ltd., will be responsible for distribution, promotion and sales. Customers and potential customers are invited to visit the company's showrooms at 6 Paddington Street, London, W.1.

Containers.—The Beatson medical bottle is available in graduated and ungraduated cork mouth and screw-neck varieties from BEATSON, CLARK & Co., LTD., Rotherham, Yorks.—Ranges of bottles in glass and polythene, including dispensing flats, ribbed ovals, bow panels, etc., are available from LAX & SHAW, LTD., 69 South Accommodation Road, Leeds, 10.—Polythene bottles and jars in the Skylon range are available from FIBRENYLE, LTD., 157 Dukes Road, Western Avenue, London, W.3.—Overseals in aluminium, the Alupharm, are offered by IDEAL CAPSULES, LTD., Edinburgh Avenue, Slough, Bucks.

Bonus Offers

CHARLES BEDEMAN, LTD., 180 Queen's Road, London, S.E.15. Lemon cream shampoo. Three free with each three dozen.

REXALL DRUG CO., LTD., Morley Street, Loughborough. Stag men's toiletries. Six free products on standard parcels. 10 per cent. discount on orders of £10 and over.

INFORMATION WANTED

Calidus 6 Way Cushion

PHOTOGRAPHIC NOTES

1960 Catalogue.—R. F. Hunter, Ltd., 51 Grays Inn Road, London, W.C.1, have distributed to photographic dealers on their books their 1960-61 catalogue; copies are available for any other retailers who are interested.

Appointed Agents.—Actina, Ltd., have appointed Bradley & Bliss, Ltd., King's Road, Reading, to be wholesale distributors for their range of photographic products, including Bilora tripods, Stevo screens, Bella cameras, Murray cine viewers, etc. Those items are now available from stock.

Two Screens.—The Aldis Square-40 for average size rooms and the Aldis Square-50 for larger rooms and small halls are screens with a fine beaded surface minimising grain when projecting colour transparencies. The distributors are Neville Brown & Co., Ltd., 77 Newman Street, London, W.1.

Fully Automatic 35-mm. Camera.—The Regula Olympia fully automatic camera, taking 35-mm. film, is marketed by Photopia, Ltd., Newcastle, Staffs.

The lens is an Auto Isconar of 40-mm. focal length, and the lens mount is marked with "zone focusing" figures. Any film speed may be set when the film is loaded.

A New Panchromatic Film.—A new medium-speed black-and-white film, the Ferrania P30, introduced by Ferrania, Milan, Italy, is available (in 120 size only), from Neville Brown & Co., Ltd., 77 Newman Street, London, W.1. It is a fine-grain, thin-emulsion panchromatic film with a speed of 80 ASA (20 DIN).

Slide Mounts and Viewer.—New "Autoslides" for 35-mm. transparencies comprise a push-peg assembly that locks the slide in position. Pre-cleaned glasses are packed separately for each loading. They are available from Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, who are also marketing a new viewer, the Jumbo 22, for 2 x 2 in. slides. It gives a choice of four picture sizes. Battery-operated, it is finished in maroon and grey plastic.

IN PARLIAMENT

WHEN Parliament assembled after the Whitsun Recess, Mr. G. DARLING asked the Minister of Health if he would introduce regulations to require that all new drugs must be tested and evaluated by a responsible body before being offered for sale to the public. In a written reply on June 20 Mr. DEREK WALKER-SMITH (Minister of Health) said that, while there were no existing powers under which such regulations could be made, he was giving, and would continue to give, all the help and encouragement he could towards improving present arrangements and facilities for clinical trials. It had been agreed to extend the terms of reference and membership of the Standing Joint Committee on the Classification of Proprietary Preparations to enable that Committee to assist in the matter.

Purchase Tax on Cosmetics

MR. GERALD NABARRO on June 22 made another attempt to obtain purchase tax cuts in cosmetics. He moved an amendment to reduce the 50 per cent. rate to 37½ per cent. The cosmetics industry was a large one, he said. It was doing very well but it laboured under a subtle disability. One could not sell cosmetics and toilet preparations abroad unless they were highly attractively packaged. That was one of the strengths of the French and German export trade. Not only was purchase tax applied at 50 per cent, to cosmetics but to the expensive packages as well. The 50 per cent. rate was applied to the bottles, the aerosols, the cardboard boxes and all the attractive frills and fittings that went into the presentation of those articles. It was highly derogatory to the export trade and it was a disability under which neither the Germans nor the French suffered. Mr. A. BARBER (Economic Secretary, Treasury) speaking later, said the yield of the tax from perfumery, cosmetics and some toilet and hair-dressing goods was £22 million. To reduce purchase tax as Mr. Nabarro wished might stimulate home demand far beyond what the industry could already meet without encroaching on the supplies for the export market. Cosmetics was an expanding industry and was not being held back by purchase tax. The amendment was defeated.

European Common Market

Replying to a number of questioners on June 23, Mr. HEATHCOAT AMORY (Chancellor of the Exchequer) stated that following discussions between Common Market countries, other members of the O.E.E.C., the United States and Canada, that took place in Paris during June, a study group was formed to examine the way in which reciprocal tariff concessions could be achieved and to seek solutions to immediate trade difficulties in particular products. It was also decided to discuss the long-term aspects of the trade relations between the European Economic Community and the European Free Trade Association. Mr. H. HYND asked the President of the Board of Trade how many English firms were opening factories in countries of the European Common Market, and what

effect this would have on United Kingdom exports. Mr. R. MAUDLING (President, Board of Trade) stated the Government did not know the figures and it was not possible to say what effect such developments might have on the United Kingdom exports.

Antibiotics in Feeding Stuffs

MR. PRIOR asked the Minister of Health if he would review the regulations governing the inclusion of antibiotics in calf foods. Miss EDITH PITT (Parliamentary Secretary, Ministry of Health) in a written answer on June 23 stated that a joint committee of the Agricultural and Medical Research Councils was re-examining the possible consequences of the feeding of antibiotics to farm animals and considering whether this constituted a danger to human or animal health. The question of amending the present regulations which did not permit the inclusion of antibiotics in calf food, would also be considered.

DEATHS

COLLINS.—On June 15, Mr. James Albert Collins, M.P.S., 106 Church Lane, Harpurhey, Manchester, 9, aged seventy-three.

GALLOWAY. — Recently Mr. Alexander Shannon Galloway, M.P.S., 41 Beechfield Avenue, Marton, Blackpool. Mr. Galloway qualified in 1895.

HOUGH.—On June 6, Mr. Edgar William Hough, M.P.S., 4 Westfield Road, Witton Park, Northwich, Ches. Mr. Hough qualified in 1925.

RENTSCHLER.—On June 17, Mr. Karl Rentschler, director, Alfred Gauthier G.m.b.H., Calmbach/Enz, Western Germany, aged sixty-two. Mr. Rentschler was closely concerned with the achievements of the German camera shutter industry.

RIMINGTON.—On June 19, Mr. J. M. Rimington, who until April 1 was the managing director of the chemical division of the Distillers Co., Ltd. Mr. Rimington, who was aged 54, was one of the original employees of British Industrial Solvents, Ltd. He was appointed company secretary in 1939, became a member of the board in 1945, and managing director in 1953. Four years later, on the formation of the chemical division of the Distillers Co., Ltd., he was appointed division managing director.

TILLOTT.—On June 12, Mr. John Booty Tillott, F.P.S., 72 Parkway, Welwyn Garden City, Hertfordshire. Mr. Tillott, who qualified in 1900, succeeded his father in the business of J. B. Tillott, Ltd., Marsham Street, Westminster, S.W.1. He semi-retired in 1952, remaining a director and the superintendent chemist of the company.

PERSONALITIES

MR. E. OWEN, M.P.S., has been re-elected chairman of the Bangor City Council's health committee.

MR. A. WRIGHT, M.P.S., D.B.A., has been appointed Assistant Editor of THE CHEMIST AND DRUGGIST. Mr. Wright joined the editorial staff of the paper in June 1958 after many

years' experience in retail and manufacturing pharmacy.

MR. E. J. SHELLARD, B.Pharm., F.P.S., A.R.I.C., F.L.S., a member of the staff of the school of pharmacy, Chelsea College of Science and Technology, has had conferred on him the external degree of Doctor of Philosophy of London University. The title of his thesis was "Pharmacognostical Studies of some Convolvulaceous Drugs." The work was carried out in the pharmacognosy departments of the schools of pharmacy at Bristol and Chelsea. Dr. Shellard served his pharmaceutical apprenticeship with the late Mr. A. R. Wheatley, Gloucester, and, after obtaining his first degree, held appointments with Parke, Davis & Co., Ltd., and Genatosan, Ltd. He obtained a teaching appointment at the Bristol school of pharmacy, Bristol, in 1946, and joined the staff at Chelsea in 1957. He is the author of two books written especially for students of pharmacognosy: "Practical Plant Chemistry for Pharmacy Students" and "Exercises on the Evaluation of Drugs and Surgical Dressings." In the summer of 1959 he spent a month in Poland at the invitation of Professor Deryng, where he was able to make some study of the pharmaceutical profession in that country. Dr. Shellard is a member of the board of examiners in pharmacognosy of the Pharmaceutical Society and an assistant examiner in pharmacognosy for the B.Pharm. degree of the University of London. He is vice-chairman of the Hounslow and District Branch of the Pharmaceutical Society.

BUSINESS CHANGES

ILFORD, LTD., have moved their Dublin headquarters to 33 James' Street.

ANDRE PHILIPPE, LTD., have moved to 71-71B Gowan Avenue, London, S.W.6 (telephone: Renown 2194).

SMITH & NEPHEW-SOUTHALLS, LTD., have moved to 5 Singer Street, London, E.C.2 (telephone (unchanged): Clerkenwell 9022).

NEWMAN LABELLING MACHINES, LTD., is the new title adopted by D. Trapow & Co., Ltd., Queens Road, Barnet, Herts.

MR. F. A. LYNE, B.Sc., F.R.I.C., who is secretary of the Association of Public Analysts, has joined the consulting practice of J. A. Radley, M.Sc., F.R.I.C., F.S.D.C., 220 Elgar Road, Reading, as head of the analytical section. He is retaining his appointments as public analyst and official agricultural analyst.

Appointments

DISTILLERS CO. (BIOCHEMICALS), LTD., have appointed new representatives as follows:—Messrs. E. P. Ashmole (for South-west England); L. A. Bainger (West End of London); N. S. Crewe, M.P.S. (Liverpool); W. G. Davies (Worcestershire and parts of Birmingham); W. C. McGovern, B.Sc.(Pharm.), M.P.S. (South-west Scotland); A. Power (North and North-west London); A. Rogers (South Wales); and J. E. Taylor (East Lancashire).

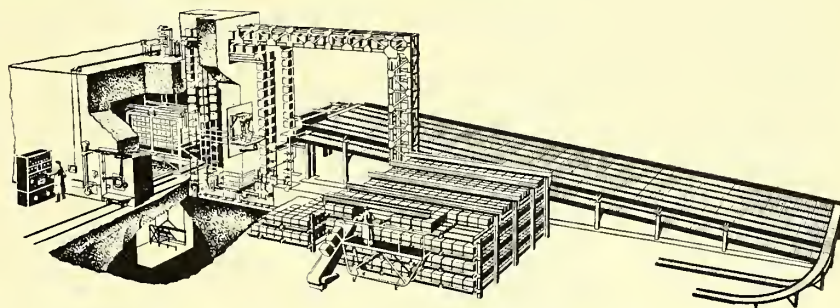
RADIOISOTOPE DEVELOPMENTS

New laboratories and industrial techniques

TWO new laboratories were opened recently by Sir Cyril Hinshelwood (president of the Royal Society) at the Radiochemical Centre (United Kingdom Atomic Energy Authority), Amersham, Bucks. The first is mainly given over to the organic synthesis of compounds labelled with carbon-14 and tritium for use in chemical and biological work. The relatively low toxicity of those isotopes, and their freedom from the emission of gamma (penetrating) radiation, permits the use of a building of conventional design. The new alpha laboratory, on the other hand, is concerned with radium and naturally-occurring radioelements. Those compounds are toxic, and usually emit gamma radiation. The equipment is therefore complex, and the work is centred upon "hot benches" where 3 or 4 ft. of concrete and up to 10 in. of lead provide screens for the staff. The benches are 50 ft. long and composed of reaction boxes interconnected by a remote-control electrical railway for the transfer of active materials. Mechanical manipulators are used, and the work is viewed through 18-in. thick lead glass windows.

Labelled Pharmaceutical Chemicals

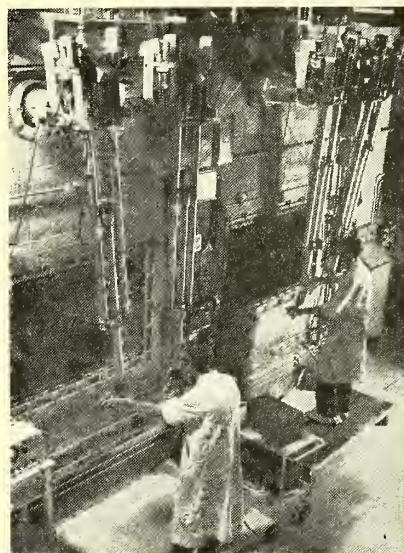
Many labelled pharmaceutical and biological chemicals are available, including progesterone; cortisone; cholesterol; testosterone; choline; serine; methionine; and valine. In all over 900 radioactive chemicals and radioactive sources are available from the Centre. The radioisotopes are used in diagnosis, in therapy, and in fundamental and applied medical research. The commonest diagnostic use is for testing the function of the thyroid gland with iodine-131 or iodine-132. Vitamin B₁₂ labelled with cobalt-58 is much used in cases of pernicious anaemia. Other isotopes are used to measure the fluids of the body, their composition and their cir-



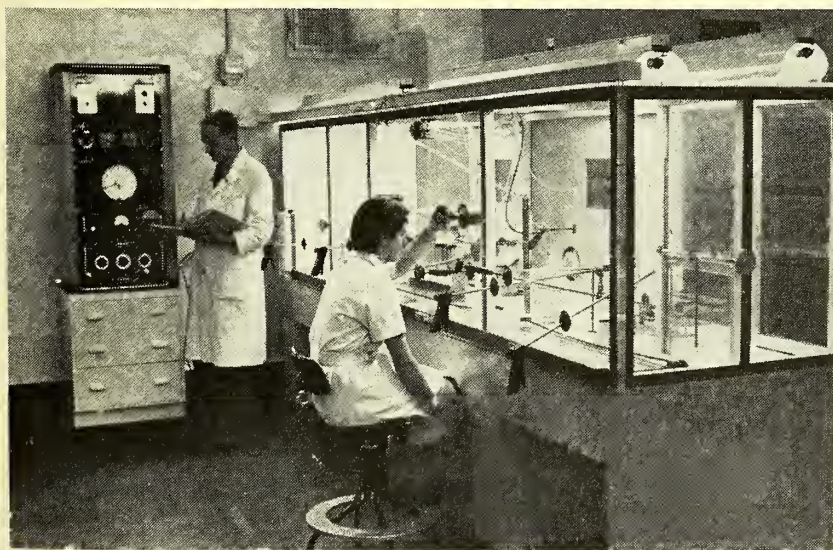
A diagrammatic representation of the experimental radiation sterilising plant. The cobalt-60 radiation source is placed in a rack at the foot of an 18-ft.-deep pool of water. Boxes are fed into the heavily shielded chamber and the source is hoisted out of the pool into a position past which the boxes travel. Apart from being loaded and unloaded the unit functions automatically. After use the source is stored once more at the bottom of the pool.

culation; the plasma, with human serum albumin-I-131; total body water, with tritium; the electrolytes, with sodium-24 and potassium-42; the volume and time of survival of red blood cells, by labelling them with chromium-51. In the treatment of malignant disease, isotopes such as cobalt-60 and caesium-137 are used externally as teletherapy units, or "interstitially" by direct insertion into the diseased tissues in the form of needles and other appliances. Beta emitters such as strontium-90 are used for treating surface lesions. Those methods are extensions of earlier procedures developed with radium, but isotopes offer the additional possibility of treatment by selective localisation. Thus iodine-131 is used in the treatment of the thyroid gland because it is selectively absorbed into that tissue; phosphorus-32 is used in the treatment of certain blood diseases by selective absorption into the bone marrow; and colloidal isotopes may be injected into certain body cavities. About 100,000 patients are treated annually by radiotherapy in the United Kingdom.

Arrangements at present are based



Heavily shielded "hot" boxes in which the manipulation of apparatus and chemicals depends upon the skilful use of mechanical "hands."



Dispensing radioisotopes at Amersham. Plastic screening and mechanical manipulation is sufficient to protect the staff.

upon the dispensing of medicaments at Amersham according to requirements specified by hospital doctors. Injection solutions are sterilised by autoclaving, and sterility tests are carried out by orthodox procedures. The packaging of isotopes for delivery is thoroughly organised to ensure safety and compliance with activity limits specified for postal, air, and train transport. The provision of a cobalt-60 source for an Australian wool sterilisation unit against anthrax, one of the demands made upon the Centre, required exceptional apparatus. The final container with isotope weighed 8 tons, and the external surface of the steel had a steady temperature of 17°C. above that of its surroundings. All dispatches from the Centre are checked by a radiation counter before release.

Radioisotopes for Industry

A member of the C. & D's editorial staff, who visited the Centre recently, accepted a further invitation to visit the Authority's newly-established research laboratories at Wantage, Berks,

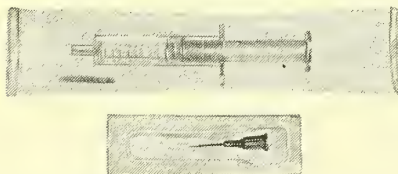


Hospital apparatus used in the treatment and diagnosis of thyroid gland conditions.

gaining there an insight into the wide potential uses of radioisotopes in industry.

The technological irradiation group, isotope research division, operates three types of gamma source, which are available for research and pilot irradiation work. The first are known as cobalt cells. Twenty-three cells at Wantage each contain from 100 to 10,000 curies of cobalt-60, ranging from "point" sources to clusters of 3-ft. articulated rods. Much of that capacity is normally engaged on internal research, but materials from other establishments, and from industrial clients, are also accommodated. Dose rates in small samples may reach 200,000 rads per hour, and dimensions are limited chiefly by requirements of dose uniformity.

The package irradiation plant is of particular interest to pharmacists. A demonstration unit has been built at Wantage for the automatic handling of standard packages (14 x 12 x 9 in.) through an irradiation process providing doses in the range 10,000 rads to 5 megarads. The capacity of the plant illustrated diagrammatically on p. 7.

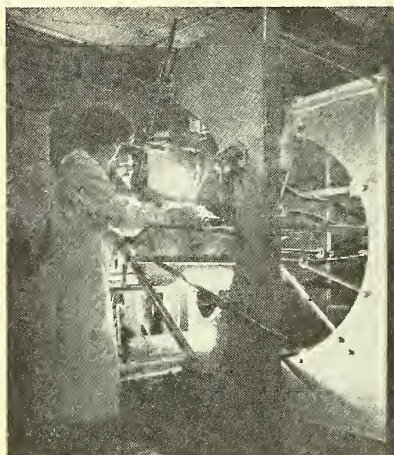


Disposable plastic syringes are sealed in a transparent plastic container for sterilisation. The dark shading on the bag is a colour marker to indicate to the user if radiation has been carried out. The hypodermic needle illustrated has a plastic mount and is strip-packed.

is about 100 cu. ft. per day at a sterilising dose of 2.5 megarads and larger quantities at lower total doses. It consists of an irradiation chamber shielded by concrete; a cobalt-60 radiation source; a water pond in the irradiation chamber for source loading and storage; an automatic handling system for the packages; control and safety system; and ancillary services. The

internal dimensions of the irradiation chamber are 20 x 20 x 14 ft., and the shielding walls and roof are normal concrete 5 ft. 6 in. thick. A stepped plug door moves on rails. Packages are conveyed through a labyrinth in the roof. The radiation source of 150,000 curies of cobalt-60 is contained in a rectangular frame approximately 7 x 2 ft. When in use, the source is at the centre of the conveyor system full of packages. If access to the chamber is required, the source is safely stored in the 18-ft.-deep pond, giving a safety margin of 6 ft. for handling during loading of the source. The pond is lined with stainless steel, and the demineralised water is continuously circulated through a purification system. The entire system is duplicated, so that two sets of packages may be handled simultaneously to receive different doses.

The cost of treating 1 cu. ft. of material with a dose of 2.5 megarads is in the region of 15s. In a plant designed for a specific purpose considerable economies could be achieved, and a reduction of that cost should be possible.

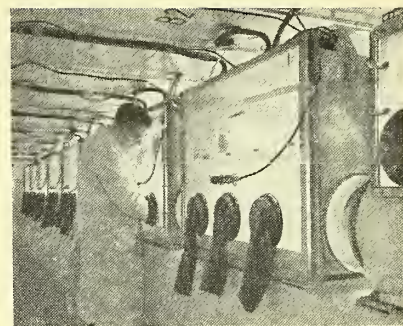


Setting-up a radiation cell at Wantage. Elaborate precautions are built in and the staff prepare materials for radiation as shown. The radiation source is stored in the thick concrete walls of the cell and fed into the room by servo-mechanisms.

sible. It is based upon a throughput of 3 tons of medical products in twenty-four hours. The Authority emphasises that development of its package sterilisation facilities is intended to aid industry. The Authority's experience covers many routine hospital equipments such as catheters; surgical gloves; arterial substitutes; dressings; surgical sutures; surgical blades; disposable plastic hypodermic syringes; and disposable hypodermic needles mounted in plastic.

Food is also being irradiated at Wantage to determine the effect of the process upon nutritional values, and the influence upon keeping properties. Other work includes the eradication of insect pests from stored grain. Demonstrations to the visiting party covered many other new applications of radioisotopes.

Isotopes may now be used in agricultural research by means of the tracer technique to discover the extent to



Fibre-glass and plastic "hot" boxes arranged in series with an interconnecting electric railway. In the event of severe contamination a box may be removed and quickly replaced with little interruption to work.

which fertilisers are utilised by the plant; to evaluate soil constituents and determine growth rates. By means of radiation, too, the natural genetic mutation rate may be accelerated with the intention of eventually improving crops.

Many new industrial applications have also been worked out, some of them adapted to specific manufacturing functions. For example, cardboard tablet containers are being monitored to ensure that every pack is filled and that faulty containers are rejected; tooth-paste tubes are checked to ensure that they are correctly filled.

Thickness measurements are also possible by providing a source convenient to the test material, the attenuation of radiation passing through giving accurate data.

Electrostatic charges on synthetic fibres during processing attracts dust, but the charge may be removed with a beta-radiation source that ionises the surrounding air exposed during "shut-down," thereby keeping the material clean.

Simple pipe-line leakages are readily detected by adding a suitable radiation source and measuring the resulting radiation at the escape point: the method is exceptionally useful for systems buried in the soil.

Hermetically sealed apparatus may likewise be tested by immersion in a radioactive gas. After pressure has been applied the equipment is tested for activity.

ISOTOPE BUREAU

To assist industry

THE United Kingdom Atomic Energy Authority, at its premises at 11 Charles II Street, London, S.W.1, has opened an isotope information bureau to assist industry in applying and using radioisotopes. The bureau is expected to be of special interest to managers, plant designers and production staff of industries that hitherto had little or no association with atomic energy but which might effectively secure considerable savings in manufacturing costs by applying radioisotopes to factory processes.

An exhibition explains and demonstrates the wide uses to which radioisotopes have already been put in industry. Technical staff attend the bureau to assist inquirers.

HOW I MODERNISED MY PHARMACY

What followed when I decided to buy the shop next door

CLIFFORD ORRELL

IN November 1958 I was offered premises adjoining my pharmacy at 61 Plungington Road, Preston, Lancs. My pharmacy had been established since 1861, and the questions that faced me were whether there would be enough scope in the area to warrant expansion, and whether the expense of converting the two premises into one, plus the cost of completely refitting, would be justified by an increase of business? Other factors that had to be taken into consideration were the additional costs of lighting and heating, an increased rating assessment; and a possible increase in staff.

Over the previous ten years business had been steadily increasing, and inquiries at the local planning offices reassured me that any clearance order pending did not, at any rate, cover the entire district in which my business was

the long frontage but small depth of the proposed new premises. Between January and May 1959 I considered and revised plans, specifications and prices. If the shop area was to have the display value intended, a means of preventing condensation on, and frosting of, windows became most essential. Double glazing was suggested to me as the most certain method of ensuring that those problems would not arise, and I agreed to have that done. The plan of the proposed new front had, of course, to be submitted to the town planning officer for approval, and that was duly secured.

The shopfitters (Myers of Old Street) were given my ideas for the proposed new layout, and they drew up plans which, after discussion and some minor alterations, were finally



The original pharmacy, with the shop next door that was taken over. At top of page: A half-way stage in the transformation.



The new shopfront embraces both sets of premises but incorporates only one entrance in a new position.

situated. Observations upon other businesses in the area showed me that non-pharmacist traders were showing an increased interest in pharmaceutical goods, and that, even if the present trade they were doing in such goods would remain with them, at least the drift might be halted. A further problem that had to be considered was that the premises at number 61 were originally taken on a twenty-one-year lease, making it necessary for me to acquire them before committing myself to purchasing the adjoining property. Having, however, taken all those factors into consideration, I completed, in January 1959, the purchase of both properties.

Type of Pharmacy Sought

Those problems, though solved, led to other problems, the principal of which was the type of pharmacy I intended to have. From local knowledge I believed that the greatest increase in trade at the site would be from counter sales. The siting of doctors' surgeries and other pharmacies in the area gave little encouragement to thoughts of increases in dispensing. For some time I had been studying American trade journals, and they gave statistical proof that open display of goods over a maximum area was the key to increased business. The opening of many new and expensive self-service stores in this country also proved the correctness of the American conclusion.

So I decided to have backless windows, making the whole shop a display area. That decision was influenced by

approved. Plans showing the necessary structural alterations were sent to a building contractor, who thoroughly surveyed the premises, a procedure their age made most necessary. Despite those thorough precautions, snags arose that had not been foreseen. That is one of the drawbacks of old property. Many extras to the original specifications had consequently to be agreed for the present and future security of the premises.

Heating Method

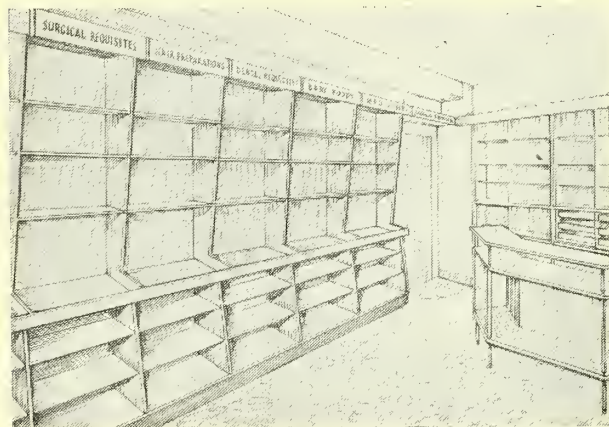
Heating arrangements were placed in the hands of electrical contractors, oil heating having been discarded owing to storage difficulties and because no great enthusiasm had been shown or practical scheme offered by the local gas authority. The electrical contractors recommended night storage heaters as the most reasonable in initial cost and the cheapest to run. The factors taken into consideration by the contractors in deciding on the number of heaters to be installed were the area of the premises, the number of times the shop door was likely to be opened daily, and the areas of the glass windows and outside walls. On those considerations they recommended four heaters all having thermostat controls. Again specialists were consulted on the lighting of the pharmacy. The decision was that fluorescent lighting tubes were used so as to give correct shades to lipsticks, etc., in which there was a considerable turnover.

A considerable amount of internal structural work was

necessary. Three interior walls had to be demolished and steel girders erected to support the upstairs walls. Steel girder and stanchions were also required to support the increased frontage wall above the windows. For that work plans and specifications had to be submitted to, and approved by, the town building officer, who did finally approve them.

Constructional Work

May 1959 saw the arrival of the building contractors, who proceeded to prop up the entire front of the building, commencing from solid foundation under the cellar floor and advancing floor by floor to roof level. Conditions were then considered safe for the whole front to be demolished, and for existing interior walls to be demolished. By the end of July the whole of that work had been done, the floors of the two premises had been levelled and the interiors plastered. Electricians had worked in conjunction with the builders to lay cables before the walls were finally plastered. After that work had been completed the shopfitters moved in, and they completed the new frontage and interior fittings by the middle of August. Decorators papered and painted the ceiling and frieze and linoleum of a prearranged pattern was laid on the floor. It had been suggested to me—and I agreed—that the design of the floor covering could encourage or deter custom. The pattern chosen was



The elevation sketch prepared by the shopfitters (Myers of Old Street, London, E.C.1), for the self-selection unit.

red arrows in a grey background, the idea being that the arrows, pointing inwards and towards the self-selection fittings situated along the entire length of the back of the shop, would act as an "invitation" to customers.

The self-selection unit installed in the pharmacy is 6 ft. 6 in. high (the normal height of such fittings). Shelves at counter level are shallow, increasing in depth as they go higher or lower. That arrangement brings into prominence, and makes goods more visible and conspicuous above or below counter level. The unit has fluorescent tubes along its entire length for illumination of goods and to show up name plates placed above each of the seven sections. The name plates are in white opaque plastic with red lettering to indicate the type of goods in each section. They are of standard size and may be interchanged if necessary, spare plates being available for seasonal business changes. The edges of all the shelves on the unit are fitted with brackets for price tickets, so that all goods for self-selection are priced.

Storage Plus Display

Units on the side walls of the pharmacy are of conventional design, with glass sliding doors, one side being devoted to cosmetics, the trays and shelves being of suitable size for those goods. A small counter display case in front of the unit is designed to hold and display shade cards and cosmetic testers. Cases on the opposite wall are used to hold photographic apparatus and accessories and are fronted by

a normal counter with open display trays. In continuance of the end of that counter is a door with a hatch to the dispensary, so that prescriptions may be handed in and medicines handed out.

Six months after completion of the work, it is possible to report that no snags have developed. Customers appear to appreciate, as do the staff, the warm, light and spacious shop. The shop is illuminated until 11 p.m. each evening, but my electricity account for the winter quarter was not nearly so heavy as I had expected.

The business remained open as usual during the entire reconstruction, and the turnover kept up to seasonal average.

NEW BOOKS

British National Formulary, 1960, alternative edition

Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1 (jointly with the *British Medical Association*). 6½ x 4 in. Pp. 292. 8s. (postage ninepence). Interleaved, 12s. 6d. (postage 1s.).

THE alternative edition of the *British National Formulary*, first published in 1957, was an innovation that has proved successful. The new edition (1960) follows closely the style of its predecessor, and the preparations in the formulary are again arranged according to their pharmacological classification under English main titles. The pharmacological classification itself has been simplified, and page references have been included for the groups of preparations that are listed individually in the appropriate sections of the formulary. That improvement should further facilitate the use of the book by the prescriber in search of alternative preparations available for treatment. There has been some rearrangement of the material in order to obtain a more rational pharmacological classification of the preparations included. The local anaesthetics and counter irritants have been transferred to the group of preparations affecting the nervous system. New sections have been added dealing with motion sickness, anticholinesterases, neuromuscular blocking agents and antimetotics. Preparations affecting allergic reactions have been brought together in a new group. The section on diagnostic agents has been deleted, and the preparations transferred to the appropriate groups in the main body of the pharmacological classification. Perhaps the most noteworthy feature of the alternative edition is the notes for prescribers attached to each section of the book. Those have been revised and enlarged where necessary. They form a useful guide to the preparations of the B.N.F., and contain much information of interest to the pharmacist as well as to the prescriber. Of particular value is the section dealing with water and electrolyte replacement, which describes the range of preparations and their uses in addition to the data on milliequivalent concentrations also included as an appendix in the standard edition. A review of the standard edition (see *C. & D.*, April 2, p. 373) outlined the new preparations added to the Formulary but it is pertinent to comment further on the extension of the range of preparations covered. There is now a more extensive coverage of preparations commonly used in hospitals, and that should considerably increase the usefulness of the Formulary to the hospital pharmacist. In particular, mention should be made of the neuromuscular blocking agents and the antimetotic drugs, which have been included for the first time. In order to limit the scope of the book in accordance with its original function, the compilers have had to omit such exclusively hospital preparations as diagnostic x-ray media and other agents used in diagnosis, and vaccines and sera are not included in the B.N.F. at present. The children's preparations have been brought together and are included in a separate infants' section on distinctively coloured pages, as in the standard edition. That innovation has been introduced as the result of the experience of many prescribers in using the first edition. The preparations in the infants' section are listed under Latin titles, and the arrangement is alphabetical. The alternative edition of the Formulary is conceived primarily from a medical standpoint and will naturally, therefore, be of most use to prescribers and medical students. However, there is much of interest in it to the pharmacist, particularly if he wishes to keep abreast of modern developments in therapeutics. Pharmacy students will also find the prescribers' notes of value in translating pharmacological training into terms of practical therapeutics.



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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Agricultural Chemicals

A NEW scheme to enable users to select, and advisers to recommend, efficient and appropriate agricultural chemicals and to discourage the use of unsatisfactory products, has been agreed between the Minister of Agriculture and Fisheries and the manufacturers. The essence of the scheme is the granting of official approval to proprietary brands of agricultural chemicals. The chemicals included in the scheme are those used for the control of plant pests and diseases, for the destruction of weeds, for growth regulation and for other crop-protection purposes. Products that are available in retail packs for use by amateur gardeners are also included, but products used as rodenticides and for purposes other than crop protection (for example, for protection of stored products; for veterinary or domestic uses) are not. The scheme is intended to provide only for the approval of claims for biological uses and is not concerned with claims for the safe use of a product. Nevertheless, products are not to be accepted into the Agricultural Chemicals Approval Scheme until their safety in use has been considered by appropriate Government departments and precautions have, if necessary, been recommended.

Participation in the scheme is voluntary, and approval is granted only for the conditions of the United Kingdom. The Agricultural Chemicals Approval Organisation (A.C.A.O.) is empowered by the Ministers of the agricultural departments to approve on their behalf, agricultural chemicals for which there is adequate evidence of efficiency. A certificate of approval is granted to each approved product, and the container of such products then carries an identification mark known as "the approval mark." Products are dealt with in a number of categories. Category I comprises those containing active ingredients not hitherto approved for crop protection in the United Kingdom and changes in formulation of products already approved. The manufacturer is required to supply, from field trials, biological evidence of efficiency. Where the A.C.A.O. desires independent biological evidence to supplement what is provided by applicants, the Organisation is free to make arrangements for such trials. Category II includes products guaranteed by the applicant to be identical with a product already approved. Category III comprises products guaranteed by the applicant to conform to an official specification. For products coming within categories II and III neither the biological evidence nor independent trials are required. Category IV includes products that have been approved but are re-

submitted for the approved information to be changed. Such a change may take the form of an addition to the list of pests, diseases or weeds controlled, or an alteration in "dosage" rates. For those changes biological evidence is necessary. The applicant must in some circumstances provide evidence of satisfactory stability of the product during storage. All products to receive approval must be re-registered annually and a list of such products is being published in February of each year.

Once approval has been given, the applicant may not alter the approved part of the label without the permission of the A.C.A.O.

It will be possible for manufacturers to secure approval for new products before putting them on the market. A fee of £30 is payable at first application for approval for each product, and £5 is to be charged for each application to amend approved information; the annual re-registration fee is £6.

The new scheme supersedes the Crop Protection Products Approval Scheme, which has been in existence for twenty years, and the claims for products approved under the old scheme are being re-examined before they are re-registered under the new one.

Mr. John Hare (Minister of Agriculture), in referring to the scheme recently, claimed that the scheme should have the effect not only of discouraging the use of unsatisfactory or inefficient chemicals, but of helping, through the display of the new approval mark, the sale of the products. With that view we agree. The effect of the scheme will be carefully noted, not only in the sphere of agricultural chemicals, but also possibly in the fields of human and veterinary medicine, where the basic problems are not entirely dissimilar.

Overseas Trade in May

THE high rate of exports achieved by the United Kingdom pharmaceutical industry during the opening months of the year was maintained during May. Although lower than in April when the shipments were valued at over £4 millions for the first time, May's exports of drugs, medicines and medicinal preparations at £3.9 millions was the second highest for any month and compares with the monthly average of £3.7 millions for the first quarter of 1960 and £3.4 millions for the first quarter of 1959. Most of the items for which separate statistics are provided by the Board of Trade (see table) were slightly above routine levels but antipaludics at £193,018 had never achieved that peak before.

Australia maintained its position as the leading market for United Kingdom prepared medicines; Nigeria was second at £238,648 but only narrowly so as shipments to Canada jumped to £237,844 against £98,218 in May 1959. The recently improved sales to Pakistan were also maintained, the value in May being £202,134 bringing the total for the year so far to £1.1 million. Exports to the Irish Republic were valued at £171,829 and to the United States at £155,644.

On the import side although most of the items for which figures are divulged were at a lower rate than usual the total at £407,779 was about average because of an increase in value of the unclassified items.

Total exports from the United Kingdom during May were valued at £317.5 millions with imports at £389.7 millions and re-exports at £11.8 millions. Although the recorded value of exports in May was higher than in

any earlier month, after adjustment to eliminate normal seasonal variations exports showed no increase on the March-April level, and in the three months March to May were 1 per cent. less in value than in the previous three months. The rise in exports at the beginning of the year has not been maintained in recent months. The substantial increase during last year and up to the first month or two of 1960, however, left the average level for the first five months of 1960 still 9 per cent. above the average for the twelve months of 1959.

The slowing down in the rate of increase in imports which was suggested by previous figures received some confirmation from the most recent figures, nevertheless, the Government has been worried by the fact that this high rate of imports has not been matched by exports.

Lord Rootes (chairman of the Dollar Export Council), who has just returned from the New York exhibition (see p. 1), rightly drew attention to that state of affairs with particular reference to the dollar markets. He pointed out that while United Kingdom total exports to the United States during May were 7.4 per cent. higher than in the corresponding month of 1959 trade in the opposite direction was 95.6 per cent. higher. The similar figures in the case of Canada were: U.K. May exports up 14.4 per cent. on last year; Canadian exports to this country up 40 per cent.

EXPORTS		VALUE
		£
Drugs, medicines, medicinal preparations (total)		3,947,334
Vitamins		247,289
Penicillin salts		80,697
Penicillin injections		39,127
Penicillin tablets, ointments, etc.		70,267
Antibiotics other than penicillin		690,706
Alkaloids		100,470
Aspirin		93,898
Antihistamines		46,567
Antipaludics		193,018
Barbiturates		56,783
Liver extracts		13,744
Ointments and liniments		119,747
Insulin		39,761
Hormone and gland preparations		107,068
Sulphonamides		88,595
Proprietary medicines		1,042,293
Other medicines, unclassified		869,203
Glycerin		18,096
Acetone		46,749
Citric acid		41,617
Salicylates		14,132
Perfumery and toilet preparations		
Lipstick, face powder, etc.		311,921
Dentifrices		173,654
Toilet soaps		274,463
Synthetic detergents		582,029
IMPORTS		£
Vitamins		24,984
Antibiotics		99,089
Alkaloids		71,826
Proprietary medicines		56,379
Unclassified medicines		155,501
Borax		105,204
Iodine		32,575
Menthhol		29,108
Essential oils		
Bergamot		39,294
Citronella		11,603
Clove		19,452
Geranium		49,570
Lavender		7,428
Lemon		38,002
Orange		17,228
Peppermint		59,901
Unclassified		209,733

Onward from Galen

A CURRENT CAUSERIE

A NEW mobile information unit for use in cancer education of the public, believed the first of its kind in Europe, went into service at the end of June as the latest extension to the work of the Manchester Committee on Cancer. The Committee, an independent voluntary body supported by local authorities in Lancashire and Cheshire, has for some years been engaged in a programme of public education designed to change the prevailing climate of fear that surrounds the disease and to stress the value of early treatment. Doctors on its panel of speakers have given 1,800 lectures to local organisations, but there has for some time been an obvious need for some means of bringing reliable information to those people who belong to no club or association. A nurse/lecturer is in charge, and she co-operates with business and industrial groups in arranging talks or film-shows to people at their places of work. She also takes the unit to agricultural shows and other public exhibitions. The vehicle is equipped with cine-projector, collapsible screen, films and other visual aids, and literature. The most encouraging feature of the new project is that it is a token of the public's enthusiasm for the Committee's work. The vehicle and all its equipment were the gift of Rotary International, District No. 105, whose constituent clubs include many pharmacists among their members.



NATIONALLY speaking "blowing one's own trumpet" is a practice rarely adopted by the British or so it has often been said by Government spokesmen, trade mission delegates back from the United States, foreign buyers, and the like. In the narrower field of companies and their shareholders, similar criticism may have excusably been levelled by the shareholders whose only communication from the company each year was an audited form of accounts. Of late, however, there has been a growing tendency for companies to issue brochures describing and illustrating their activities and their products. Two admirable examples of these were received by the same post recently—*Building for the Future* by Boots Pure Drug Co., Ltd., and *The Raw Materials of Progress* by Laporte Industries, Ltd. From a compiler's angle, the first, with a wealth of photogenic material to draw upon in the form of new retail branches, finished products and consumer goods familiar to all passing up and down the local high street, must have had a relatively easy task. Not so the producers of the second, for they were concerned with goods which the public never sees—liquids and powders packed in sacks, bottles and carboys, etc., which to a layman, as the book says, look very much like one another. Yet few industries could get on without them. Introducing the book at a private meeting in London on June 21, Mr. P. D. O'Brien (chairman of the company) said that they had undertaken that form of communication because he believed that it was most important for everyone concerned in industry, whether as an employee, as a shareholder, or a user of the end-product, to know what the other fellow was doing, and how he went about it. That was particularly important for the British chemical industry, which worked so hard, and invested so much money, in order to produce things that were essential to modern civilisation, but which were rarely seen by the public. May we suggest that certain parliamentarians should be presented with a copy? We are confident they would read it and make use of the information therein.

"I STAY WHITE": To the enterprising chemist who has sent me a bottle of a new kind of face lotion, may I say this? I do not wish to appear in public wearing "a healthy synthetic sun tan." If I did, I would prefer to use walnut juice rather than some revolting new chemical. It is my intention to use the liquid in seeing if it will tone down the colour of a piece of bare wood in the garden. . . . There must be a sensible use for the stuff.—Gilbert Harding in the *People*.

PHARMACY IN MALTA

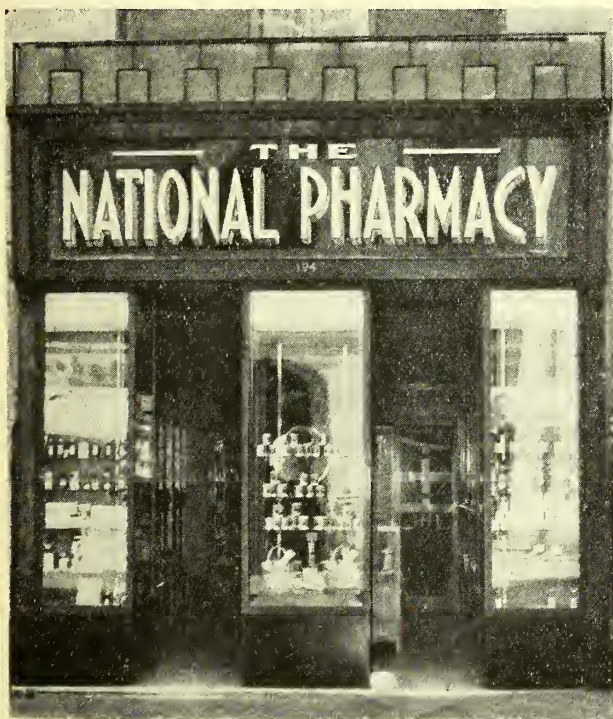
A four-year course: no lack of employment: growing competition

UNTIL about fifteen years ago the Pharmaceutical Chemist diploma (Ph.C.) in Malta, granted on completion of a three-year course, was the sole method of entry to a pharmaceutical career. Subsequently a degree in pharmacy (B.Pharm.) was introduced, and an extra year, intended to raise the general educational standard of the pharmacist, was added to the course. The course is now divided as follows:—

FIRST YEAR (up to Higher certificate standard): English language and literature; Maltese literature and philology; biology; chemistry; physics; and higher mathematics.

SECOND YEAR: Biology, chemistry and physics; pharmaceutical chemistry.

THIRD AND FINAL YEAR: Pharmaceutics, pharmacognosy and pharmacology. A practical course in the University's laboratories accompanies each scientific subject of the course.

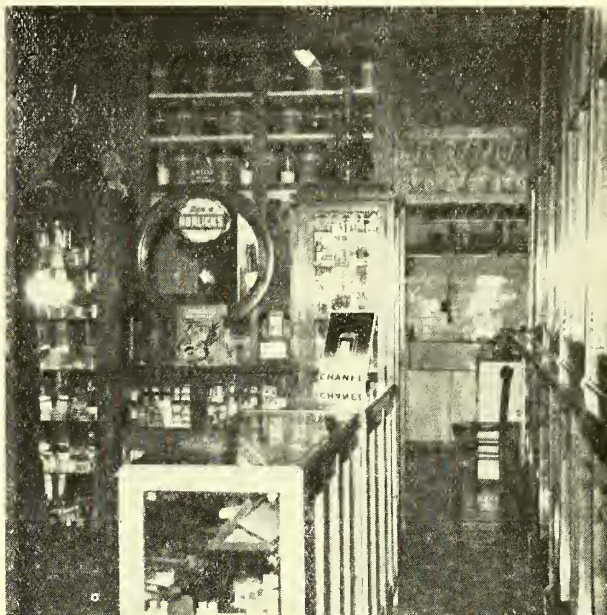


Before beginning the two-year final course the student has to furnish the name of a dispensary where he is to carry out his practical training, on the completion of which and prior to the final examinations a certificate, duly signed by the managing apothecary under whose guidance the practice will have been carried out, has to be produced.

When a student has satisfied all the conditions he applies to the Medical and Health Department for a warrant to practise, and has his name inscribed in the Pharmaceutical Register. After that he is allowed to practise as an apothecary.

The young pharmacist in Malta finds little difficulty in getting employment. Some pharmacists (though few), embark on a career in a local civilian or Service hospital. A few others may be lucky in becoming medical representatives for a major foreign manufacturer operating in the islands. Most, however, go into privately owned pharmacies.

In the dispensary the pharmacist may be called upon to perform the varying duties of a retail pharmacy, from responsibility for the key of the Dangerous Drugs cupboard to all-round managerial responsibility and from selling cosmetics to giving injections.



The National Pharmacy, Hamrun, Malta.
At left: The Shopfront.
Above: Counter and fittings of the Shop.
Below: A corner of the dispensary.

In most Maltese pharmacies it is the practice to maintain a clinic attended by one or more practitioners, who pay no rent. The whole thing operates as a kind of "symbiosis." The doctor, in attracting patients, provides the chemist with his customers. The chemist's customers are likely patients for the doctor.

Between the physician and the pharmacist there often exists an even closer relationship. Often the two occupy their less busy hours by discussing the merits or demerits of the various drugs used, special dosages, side-effects, or perhaps the results obtained by the combined use, for the first time, of two or more drugs.

The stock carried in the average Maltese pharmacy has, for the most part, remained traditional, but modern trends are gradually finding favour.

Under the impact of competition some dispensaries, even of the more professional type, have to add to their stock in trade articles alien to pharmacy, such as plastic articles, jewellery, beach-toys, sun-glasses, photographic goods and projectors, vacuum flasks, etc. Many, however, manage to preserve some of their dignity by relegating those intruders to a corner of the premises.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 18.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

ANTHICAL cream

MANUFACTURER: May & Baker, Ltd., Dagenham, Essex.

DISTRIBUTOR: Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex.

DESCRIPTION: A flesh-pink cream containing 1.5 per cent. w/w of mepyramine maleate, and 15 per cent. w/w of zinc oxide in a vanishing-cream type base.

INDICATIONS: Relief of sunburn, itching, nettle stings and prickly heat.

METHOD OF USE: To be rubbed gently into the affected parts. May be applied three times daily.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

SOVENTOL

MANUFACTURER: Knoll, Ltd., 20 Gerrard Street, London, W.1.

DISTRIBUTOR: Pharmethicals (London), Ltd., 20 Gerrard Street, London, W.1.

DESCRIPTION: Tablets each containing 50 mgm. of Soventol hydrochloride (N-phenyl-N-benzyl-4-amino-1-methyl-piperidine hydrochloride); jelly containing 2 per cent. of Soventol lactate.

INDICATIONS: For the treatment of pruritus and all allergic and hypersensitivity reactions.

DOSAGE: *Adults*: 1 tablet (50 mgm.) repeated if necessary in 6-8 hours. *Children*: 25 mgm. two to four times daily if necessary. *Infants*: 10 mgm. two or three times daily if necessary. The jelly may be applied in a thin layer as required.

HOW SUPPLIED: Tablets in tube of twenty and bottle of 200 and jelly in tube of 20 gm.

FIRST ISSUED: April 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

AKINETON

MANUFACTURER: Knoll, Ltd., 20 Gerrard Street, London, W.1

DISTRIBUTORS: Pharmethicals (London), Ltd., 20 Gerrard Street, London, W.1.

DESCRIPTION: Tablets each containing 2 mgm. of the hydrochloride and ampoules each containing 1 ml of isotonic solution 5 mgm. of the lactate of 3-piperidine-1-phenyl-1-bicycloheptenyl-propanol-(1).

INDICATIONS: All forms of Parkinson's disease and syndrome, such as idiopathic; postencephalitic; in arteriosclerosis; intoxications; and Wilson's disease.

DOSAGE: According to individual requirements.

HOW SUPPLIED: In tube of twenty and bottles of fifty and 200 tablets and boxes of six and thirty ampoules.

FIRST ISSUED: March, 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

FALAPEN

MANUFACTURER: Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh 11.

DESCRIPTION: Yellow-coated tablets consisting of a shell and core, each tablet containing 500,000 international units of penicillin G (benzylpenicillin). The shell contains crystalline potassium penicillin G which dissolves quickly on entering the stomach. The core is enclosed in a special coating which is insoluble in the stomach but is immediately soluble on entering the gut to give a slow steady release of penicillin.

INDICATIONS: Acute infections caused by penicillin-sensitive organisms and the prophylactic administration of penicillin.

DOSAGE: One tablet every 12 hours, preferably before a meal. Administration should continue for at least 48 hours after clinical cure is apparent.

HOW SUPPLIED: In box of 100 foil packed tablets.

FIRST ISSUED: May 1960.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

NOTES: Not to be administered to patients with a history of allergy to penicillin.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

GEWODIN

MANUFACTURER: Geistlich Sons, Ltd., Chester.

DESCRIPTION: Tablets each containing: 3-(N-methyl-(α -methyl-B-phenyl) - ethyl - aminomethyl) - 4 - isopropylmorphazone, 0.025 gm.; paracetamol, 0.25 gm.; isopropylphenazone, 0.075 gm.; caffeine, 0.030 gm.

INDICATIONS: Conditions responding to an analgesic.

DOSAGE: 1-2 tablets three times a day.

HOW SUPPLIED: In containers of 100 tablets.

FIRST ISSUED: April 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

SULPHAMAGNA

MANUFACTURER: John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1.

DESCRIPTION: A pleasant-tasting, chocolate-coloured suspension each 30 mls of which contains 2 gm. of activated attapulgit; 0.2 gm. of streptomycin base (as sulphate); 2 gm. of phthalylsulphathiazole, and 0.5 gm. of sulphadiazine.

INDICATIONS: Diarrhoea, regardless of aetiology.

DOSAGE: *Adults*: Two tablespoonfuls three or four times a day. *Children*: up to 2 years, $\frac{1}{2}$ -1 teaspoonful; 2-8 years, 2 teaspoonfuls; 8-12 years, 3 teaspoonfuls—all three times a day. 12 years and over, adult dose.

HOW SUPPLIED: In bottle of 114 mls.

SUPPLY RESTRICTIONS: P.I, S.4B.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

DECADRON skin lotion

MANUFACTURER: Merck Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: Lotion, each mil containing 1 mgm. of dexamethasone 21-phosphate.

INDICATIONS: Contact Dermatitis: Allergic reactions to: drugs, cosmetics, clothing materials, food, soaps. Atopic Dermatoses: Allergic eczema, neurodermatitis, eczematoid dermatitis, food eczema, infantile eczema, pruritis with lichenification. May be helpful in psoriasis, especially during an acute phase. Miscellaneous: Seborrhoeic dermatitis, otitis externa, insect bites, prickly heat, intertrigo, sunburn, non-specific anogenital pruritus.

METHOD OF USE: Apply two or three times a day.

HOW SUPPLIED: In plastic squeeze bottle of 15 ml.

FIRST ISSUED: May 1960.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

PREDSOL injection

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: 1-ml ampoules, each containing 20 mgm. of prednisolone as prednisolone disodium phosphate in a buffered solution ready for use.

INDICATIONS: In emergencies, for treatment of severe shock arising from surgical or accidental trauma, blood loss, burns or overwhelming infections; acute adrenal failure as in Addison's disease, Simmond's disease, following adrenalectomy and when adrenocortical function has been suppressed by prolonged cortisone therapy as in rheumatoid arthritis. In status asthmaticus, acute allergic reaction, including drug allergies and in the Waterhouse Friderichsen syndrome.

DOSAGE: By intravenous injection, 1-5 ml (20-100 mgm.) repeated until response occurs. Higher doses if required. *Maintenance*: 1 ml at suitable intervals. Can be added to blood transfusion if desired. *Subconjunctivally*: 1-ml doses. Soft tissue lesions 0.5-1 ml.

HOW SUPPLIED: In box of six 1-ml ampoules and pack of a single 1-ml ampoule. FIRST ISSUED: May 1960.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

NOTES: To be protected from light and stored in a cool place.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

SURFADIL

MANUFACTURER: Eli Lilly & Co., Ltd., Kingsclere Road, Basingstoke, Hants.

DESCRIPTION: Cream containing: Cyclomethycaine 0.5 per cent.; thenylpyramine 2 per cent. A combination of a surface anæsthetic and an antihistaminic in a vanishing cream base.

INDICATIONS: Irritant skin conditions due to: Allergy; insect bites; sunburn; contact dermatitis; pruritus ani; eczema; infantile eczema; herpes zoster.

METHOD OF USE: To be applied two or three times a day.

HOW SUPPLIED: In tubes of 1 oz.

FIRST ISSUED: May 1960. SUPPLY RESTRICTIONS: P.I.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

RIKOSPRAY benzocaine

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: A self-propelled aerosol specifically designed for topical application as an emollient analgesic and containing 20 per cent. of benzocaine; 0.1 per cent. w/v of cetyl pyridinium chloride; and water-miscible base to 100 per cent.

INDICATIONS: In gynæcological examinations of sensitive patients; for greater post-operative comfort in gynæcology and proctology; and to facilitate cleansing in "gravel rash."

METHOD OF USE: The product is sprayed on as required.

HOW SUPPLIED: In 6-oz. pressurised canister.

FIRST ISSUED: June 1960.

NOTES: Removed, if necessary, by swabbing with warm water or saline.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

RIKOSPRAY silicone

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: A self-propelled aerosol protective specifically designed for topical use, and containing 0.5 per cent. of aluminium dihydroxy allantoinate; 0.1 per cent. of cetyl pyridinium chloride; 1 per cent. v/v of terpineol; and silicone vehicle to 100 per cent.

INDICATIONS: For the prevention and treatment of bed sores, particularly in incontinent patients; prevention and treatment of napkin rash; and colostomy hygiene.

METHOD OF USE: Pressure points are sprayed twice daily for at least a week; thereafter once daily is usually sufficient.

HOW SUPPLIED: In 6-oz. pressurised canister.

FIRST ISSUED: June 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

DIOTROXIN

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: White tablets, each containing 90 microgm. of L-thyroxine sodium and 10 microgm. of L-triiodothyronine (liothyronine) sodium.

INDICATIONS: Myxœdema and other forms of hypothyroidism.

DOSAGE: Usually 2-3 tablets daily but doses vary from 1-5 tablets a day. Uncomplicated hypothyroidism of short duration: Initially, 1-2 tablets daily, dosage being increased if necessary. Myxœdema of long standing (and when there are cardiovascular complications): Initially, $\frac{1}{2}$ -1 tablet may be given, increasing at weekly intervals until optimal responses are attained. Continued maintenance therapy: Dosage must be adjusted to the individual.

HOW SUPPLIED: In bottles of 100 and 1,000.

FIRST ISSUED: June 1960.

SUPPLY RESTRICTIONS: S4B.

NOTES: As daily dosage is cumulative, the full effect may not be seen for two or three weeks or longer. Patients must therefore, be observed regularly after each dosage adjustment. If too rapid an increase in metabolism is produced (causing tremors, nervous irritability, insomnia, palpitations, tachycardia, diarrhœa, loss of weight or sometimes angina), dosage must be reduced or stopped for a few days and then reassessed. Particular care is needed when there are cardiovascular complications.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

ETISUL T

MANUFACTURER: Imperial Chemical Industries, Ltd., pharmaceuticals division, Wilmslow, Ches.

DESCRIPTION: A cream containing in each "one-unit dose" 5 gm. of diethyl dithiolisophthalate.

INDICATIONS: Tuberculosis of the skin, especially lupus vulgaris.

METHOD OF USE: A unit dose of cream should be massaged vigorously into the skin avoiding hair of the head or body.

HOW SUPPLIED: In tube containing 5 gm. of active agent.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

TERSAVID

MANUFACTURER: Roche Products, Ltd., 15 Manchester Square, London, W.1.

DESCRIPTION: Tablets each containing 50 mgm. of 1-benzyl-2-pivaloylhydrazine as the hydrochloride, a mono-amine oxidase inhibitor giving symptomatic relief in angina pectoris.

INDICATIONS: Symptomatic relief of angina pectoris.

DOSAGE: Three to six tablets (150-300 mgm.) daily as a single dose or as divided doses until optimal effect is obtained. Then a daily maintenance of one to four tablets (50-200 mgm.).

HOW SUPPLIED: In packings of fifty and 250 tablets.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

SOVENTOL C

MANUFACTURER: Knoll, Ltd., 20 Gerrard Street, London, W.1.

DISTRIBUTOR: Pharmethicals (London), Ltd., 20 Gerrard Street, London, W.1.

DESCRIPTION: Dragees each containing 25 mgm. of Soventol hydrochloride (N-phenyl-N-benzyl-4-amino-1-methyl-piperidine hydrochloride) and 20 mgm. of β -cyclohexyl-isopropyl-methylamine hydrochloride.

INDICATIONS: Treatment of pruritus and of all allergic and hypersensitivity reactions.

DOSAGE: One to three dragees repeated every 6 hours as required.

HOW SUPPLIED: In tube of twenty and bottle of 200.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 2, 1960.

PRIATAN

MANUFACTURER: Knoll, Ltd., 20 Gerrard Street, London, W.1.

DISTRIBUTOR: Pharmethicals (London), Ltd., 20 Gerrard Street, London, W.1.

DESCRIPTION: Tablets each containing: 0.015 gm. of *l*-3,4-Dimethyl-5-phenyl-2-iminothiazolidine-hydrothiocyanate; 0.015 gm. of *l*-Ephedrine-hydrothiocyanate; 0.05 gm. theophylline; 0.4 gm. phenazone. Each gram of solution contains: 0.03 gm. of *l*-3,4-Dimethyl-5-phenyl-2-iminothiazolidine-theophylline-7-acetate; 0.03 gm. of *l*-Ephedrine-theophylline-7-acetate. Each ampoule contains in 1 mil: 0.03 gm. of *l*-3,4-Dimethyl-5-phenyl-2-iminothiazolidine-theophylline-7-acetate; 0.03 gm. of *l*-Ephedrine-theophylline-7-acetate.

INDICATIONS: Bronchial asthma; cardiac asthma; bronchitis (acute, chronic, spasmodic, associated with tracheitis, etc.).

DOSAGE: *Adults*: Prophylaxis and mild distress, $\frac{1}{2}$ -1 tablet, if necessary, several times daily. To abort an asthmatic seizure, 1-2 tablets. Inhalation (aerosol) therapy using solution may be employed, under medical supervision. Inhalation may be extended up to 10 minutes (=2 mil). The usual dose of solution is 10-20 drops in some fluid, 3-4 times daily. Doubled if need be and repeated 3-4 times in a day. Subcutaneous, intramuscular or intravenous injection of 1 mil controls an attack; in severe cases, 2-3 ampoules intravenously, may be used. *Children*: $\frac{1}{2}$ - $\frac{3}{4}$ the corresponding adult dose according to age. 4-10 drops of solution may be administered orally 5 times daily; or, inhalation over 10-15 minutes (= $\frac{1}{2}$ -1 mil) may be used.

HOW SUPPLIED: In tube of twenty and bottle of 200 tablets. In bottles of ten and 100 gm. of solution. In boxes of six and thirty ampoules.

PHARMACEUTICAL SOCIETY OF IRELAND

Monthly meeting of Council

AT the June meeting of the Council of the Pharmaceutical Society of Ireland, Mr. H. P. Corrigan (president) in the chair, a letter was read from the registrar of the Apothecaries' Hall, Dublin, stating that its court of governors had agreed to proposals put forward by the Pharmaceutical Society in connection with the new Pharmacy Amendment Bill, and was informing the Department of Health accordingly.

MR. M. POWER drew attention to an advertisement in the trade Press in which, he said, the title of the Society had appeared at the head, while the business address of the person signing it had been attached.

Following a lengthy discussion, in which the action of the person responsible was condemned, it was unanimously agreed that the president should interview him and convey the Council's disapproval of his action, pointing out that they had taken a serious view of his conduct. It was also decided to bring the code of rules governing conduct of all such bodies to the notice of all committees operating under the Council.

MR. G. C. O'NEILL said it should be made clear to all committees that the Council was the paramount body, and MR. M. COSTELLO said that the only people to sign statements published under the heading of the Society should be the president and registrar. Only in May he had had occasion to refer to a somewhat similar breach, not knowing at the time that the Council would run into the present situation. The sooner they insisted that under no circumstances should correspondence from any of the various groups in pharmacy bear the address of the Society the better. As custodians of the good name of the Society he believed they should be given a preview of all correspondence emanating from the address 18 Shrewsbury Road. In the present case no proof of the advertisement had been submitted in advance to the Council, who had no way of knowing if they would approve of it before publication. If they had no control over matters like that they were only wasting time trying to look after the good name of the Society.

MR. M. L. CASHMAN agreed that they should not allow the title of the Society to be used in such manner, especially as they had not an opportunity of seeing the contents of the publication in advance.

MR. V. G. McELWEE said it should be made known to the person responsible that he had incurred the displeasure of the Council, and MR. J. GLEESON said the Council must be zealous in guarding the rights and privileges of the Society and should make it clear to all that they exercised complete control in this respect.

THE REGISTRAR reported that the First Professional examinations had commenced the previous day and would continue until the end of the month. The Second Professionals would be staggered towards the end of the month and the beginning of the next. The Assistants' examinations would be held later on.

Pharmacists on Health Councils

A letter from the Department of Health regarding appointment of members to Consultative Health Councils pointed out that local authorities had at present an absolute discretion in the selection of two representatives to those committees. THE REGISTRAR said he had been informed by Mr. F. Loughman that, to get a pharmaceutical chemist appointed on each committee, it would be best if local associations contacted county councillors direct, rather than that the Society should write to the county managers. It was agreed to write to the local associations on those lines.

A letter was received from the Association of Irish Pharmaceutical Industries enclosing a copy of a letter sent

to the Department of Health in which it was stated that members welcomed reports of the intention to establish a pharmaceutical control laboratory and would be glad if representatives of the Association were invited to any discussions that might be arranged in consequence.

A Problem in Rural Areas

MR. P. G. GARAHY, Enniscorthy, wrote stating that, at a meeting of the County Wexford Pharmaceutical Association in New Ross, a discussion had taken place on the poisons laws, and it was felt that the strict observance of the pharmacy laws would be made easier in rural areas if sulphonamides for veterinary use were made Part II poisons. The letter added that the Association had agreed to nominate Mr. Michael Fortune, Main Street, Wexford, for election on the Consultative Health Committee for the county. THE REGISTRAR said he had replied stating he did not think it was possible just now to do anything about making the sulphonamides a Part II poison. He further explained that, under the 1870 Pharmacy Act, it was possible to have a drug put on schedule, but there was no machinery for moving it. The sulphonamides were Part I and could not be made a Part II poison until the new Pharmacy Act became law.

It was unanimously agreed on the proposal of THE PRESIDENT, seconded by MR. COSTELLO, to appoint the dean (Dr. R. F. Timoney) as the Council's representative on the Therapeutic Substances Advisory Committee set up by the Department of Health.

THE REGISTRAR reported on the deaths of Messrs. Joseph Gorry, James Ernest Scott, Pierce Power and William A. Batty. On the motion of THE PRESIDENT, sympathy was expressed at the death of Mr. W. E. Elder, Aberdeen (a member of the Council of the Pharmaceutical Society of Great Britain), and the registrar was instructed to send letters of condolence to Mrs. Elder and to the Council of the Pharmaceutical Society of Great Britain. Sympathy was also voted to the family of the late Mr. Gorry (a former member of Council).

The Licence certificates of Julius T. L. Darko, Brigid Ann Keenan and Pdraig O'Malley were signed and sealed, THE REGISTRAR remarking that Mr. Darko was the first African student to qualify in Dublin.

The following were granted preliminary registration:—Godfrey Samuel Beecham, Kumasi, Ghana (Pharmaceutical Chemists' Preliminary Register); John Martin F. Leonard, Peafeld House, Ballysimon, Limerick, and Miss Mary Reilly, Granard, co. Longford (Pharmaceutical Assistants' Preliminary register).

The following changes of address were noted:—Mrs. Mary Frances O'Callaghan, L.P.S.I., to Bank House, Abbeyfeale, co. Limerick; Dr. Daniel McAlister, M.P.S.I., to 25 Fair Street, Drogheda, co. Louth; Pdraig O'Briain, M.P.S.I., to 46 Eaton Square, Terenure; Mrs. Mary Theresa O'Brien, L.P.S.I., to 46 Eaton Square, Terenure; John O'Beirne, M.P.S.I., to 5 Haven Close, Grasscroft, nr. Oldham, Lancs, England; Maurice J. Toomey, L.P.S.I., to Omeath, Shannonville, Ennis Road, Limerick, and Joseph B. Murphy, M.P.S.I., to 4 Pearse Square, Ballypheane.

It was agreed to elect the following to membership:—Mrs. Eileen T. Cronin, Miss Ita Moriarty, Mr. Thomas Fahey and Mr. Maurice Power.

The following were nominated for membership:—Dr. Mary M. Costello, Galway; Maire Ni Ceocain, Mala, Co. Caigh; Richard Goold, Meagher's Pharmacy, Baggott Street, Dublin; Thomas J. Leahy, 289 Navan Road, Dublin; John O'Beirne, 5 Haven Close, Grasscroft, nr. Oldham, Lancs, and Hubert Gaffney, 89 Upper Drumcondra Road, Dublin.

L.A.H. certificates having been submitted, the following

were registered as Pharmaceutical Chemists:—Drs. Maire Kearney, Ormeau Road, Belfast; Henry Murphy, High Street, Kilkenny; and John Walshe, Birr, co. Offaly.

THE REGISTRAR said he had received a letter regretting inability to attend from Mr. T. R. Miller, whose co-director (Mr. Ronald Bruce Brown) had died recently.

Present were Messrs. M. Costello, K. Banks, M. L. Cashman, C. J. Cremen, J. Gleeson, D. J. Kennelly, V. G. McElwee, G. C. O'Neill, T. B. O'Sullivan, M. Power and J. Power

At a meeting of the Benevolent Fund which followed, grants totalling £72 were passed for payment.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

A MOTION that the Council of the Pharmaceutical Society of Northern Ireland should set up a general purposes committee, consisting of past presidents, to consider and make recommendations upon matters not within the province of committees already appointed, was discussed at the monthly meeting of the Council in Belfast on June 16.

The motion was in the name of Mr. G. E. McILHAGGER, who said he felt such a step would be useful. Mr. C. A. QUINN (a past-president) did not agree that such a committee should be confined to past-presidents. There might be other members, he said, who could usefully contribute to it. Supporting Mr. Quinn's view, Mr. N. COOPER said he did not see what changes had taken place to make a general purposes committee necessary but, if such changes had taken place, he felt the committee should be elected by the Council rather than in the manner proposed in the motion.

For and Against a Standing Committee

Mr. H. BOYD said he did not feel it was necessary to appoint a standing committee. It could perhaps be an understood thing that the past-presidents should meet at a stated time to make recommendations to the Council for the purposes of electing new officers. That would be about the only function a general purposes committee could perform.

It was pointed out to the members that a general purposes committee that had existed some years earlier had been allowed to lapse because there was nothing for it to do. Mr. McILHAGGER said the Council and incoming presidents would benefit from having consideration given to the policy stated on the election of new presidents and the co-option of new members following sudden deaths, resignations or retirements. He assured the meeting that there was nothing sinister in his proposal. He was only bringing into the open something that had been a problem for a number of years.

Mr. JACK GORDON supported the motion, saying it would make the Council more democratic. Even if the committee did consist of past-presidents, junior members could be sounded for their views.

Mr. H. G. CAMPBELL supported the principle behind the proposal but thought the title of the committee should be more specific. Mr. J. KERR also supported the idea behind the proposal.

After further discussion it was agreed that Mr. McIlhagger, who had had to leave the meeting during the debate, should be asked to rephrase his proposal, and that the matter should be discussed at the next meeting.

The Council had before it a letter from Mr. R. J. Scott, who in 1959 was awarded the Theophilus Harper Foundation, asking if the Foundation could be awarded to him for another year. There were also letters from Dr. A. H. Beckett (Chelsea College of Science and Technology) saying he would be prepared to accept Mr. Scott as a research student for 1960-61, and from Dr. Harper (Mr. Scott's adviser of studies) recommending the renewal of the foundation for another year. On the motion of Mr. H. G. CAMPBELL, seconded by Mr. W. P. EWART, it was agreed to renew the Foundation for another year.

THE SECRETARY (Mr. W. Gorman) reported that a letter had been received from the Ulster Chemists' Association about a member who had had to attend court proceedings to give evidence in connection with a burglary at his premises. The expenses offered to the member were considered completely inadequate and the Council was asked to take up the matter of court expenses generally with the appropriate authority. The secretary was accordingly instructed to write to the Ministry of Home Affairs giving the Council's opinion as to what would constitute a reasonable sum for expenses and to ask if the Ministry would approve that amount.

The Council granted applications for restoration to the register from J. Gibson Kennedy, Carnmoney, co. Antrim; A. E. Staunton, Warrenpoint, and Robert Kells, 3 Castle-reagh Street, Belfast.

Dr. R. G. R. Bacon presented a report from the House Committee on the Committee's inspection of the Society's premises on May 12, and made certain recommendations regarding renovations and redecorating. It was agreed to proceed with the recommendations, and the secretary was authorised to seek estimates of the cost of the work.

Accounts totalling £250 14s. 9d. were passed for payment.

A proposal by THE PRESIDENT (Mr. J. Caldwell) that a letter of sympathy should be sent to the family of the late Mr. W. E. Elder, Aberdeen, was adopted.

At question time Mr. BOYD said everyone regretted the passing of Mr. Charles Young. It had been suggested to him that, as Mr. Young had been for a long time a lecturer in Belfast College of Technology, there should be some lasting memorial to him. He thought that, if a sum of money could be collected and invested, the interest could be passed on to the college as a Charles Young Foundation for research work. He suggested that a small committee should be appointed to consider the matter and make a recommendation as soon as possible.

It was agreed to refer the matter to the Finance Committee for initial consideration, and that the committee should nominate other interested persons outside the Council who would be invited to join a larger committee that would formulate proposals to organise the collection for the memorial and suggest the form it should take.

ECHOES OF THE PAST

TO CEASE THE HICCOUGH

From Sylvia Sylvarum by Francis Bacon, London, 1676.

It hath been observed by the *Ancients*, that *Sneezing* doth cease the *Hiccough*. The *cause* is, for that the *Motion* of the *Hiccough* is, a lifting up of the *Stomach*; which *Sneezing* doth somewhat depress, and divert the *motion* another way. For first, we see that the *Hiccough* cometh of *fulness* of *meat*, (especially in *Children*) which causeth an extension of the *Stomach*: We see also, it is caused by *acide Meats* or *Drinks*, which is by the pricking of the *Stomach*. And this *motion* is ceased, either by *Diversion*, or by *Detention* of the *Spirits*: *Diversion*, as in *Sneezing*; *Detention*, as we see *holding* of the *Breath* doth help somewhat to cease the *Hiccough*, and putting a Man into an earnest study doth the like, as is commonly used: And *Vinegar* put to the *Nostrials* or *Gargarized* doth it also; for that it is *Astringent*, and inhibiteth the *motion* of the *Spirit*.

NOTES ON NEW MEDICAMENTS

ACTRIOL.—*Chemistry:* 16-Epi-actriol, a substance that occurs naturally in small amounts in pregnancy urine. It has weak oestrogenic properties generally, but little endometrial action. When applied to the skin it can neutralise any excess of circulating androgens locally without any systemic action. That is the basis of its use in acne, as the condition is due to a plugging of the skin follicles by excessive sebaceous activity due to hormone imbalance. Another hormone preparation used for acne is Gonadyl tablets. Those contain serum gonadotrophin. (Published May 21.)

AKINETON.—*Chemistry:* 3-Piperidine-1-phenyl-1-bicycloheptenyl-propanol. Having both anticholinergic and nicotinic properties, the compound has a marked activity in controlling the spasms of Parkinson's disease. Its use avoids the troublesome side effects of the belladonna alkaloids, also widely used, and causes but slight visual and salivary disturbances. Other drugs used in Parkinson's syndrome include benzhexol (Artane), benztropine (Cogentin), phenglutarimide (Artubane), procyclidine (Kemadrin), orphenadrine (Disipal, Norflex) and ethopropazine (Diparcol).

DEPO-MEDRONE.—Methyl prednisolone acetate in aqueous suspension. The product has a rapid action, with a sustained effect, and is suitable for local injection into joints, and for intramuscular injection when an extended systemic action is required. Other long-acting products include Precortisyl (prednisolone acetate), Ultracortenol (prednisolone trimethylacetate) and hydrocortisone T.B.A. (hydrocortisone tributyl acetate). (Published April 2.)

DI-ADAMIL-K.—*Constituents:* Hydroflumethiazide and potassium chloride. The former is a derivative of chlorothiazide with markedly increased potency. It also causes less potassium loss than the parent drug, but for prolonged therapy, and to guard against hypokalemia, some supplementary potassium may be required, and Di-Adamil-K represents such a combination. Isidrex-K and Hydrosaluric-K are basically similar, but contain hydrochlorothiazide instead of hydroflumethiazide. Another point of difference is that the potassium salt is present as an enteric-coated core, by which absorption is delayed, and possible nausea is reduced. Salupres is a similar cored product, but contains both hydrochlorothiazide and reserpine in the shell of the tablet.

ETISUL T.—*Chemistry:* Diethyl dithiolisophthalate. Having a high degree though a restricted range of antibacterial activity, the compound is effective against *Mycobacterium tuberculosis* and *Mycobacterium leprae*. After absorption, the drug is broken down in the body to ethyl mercaptan, to which the activity of the drug appears to be due. Other drugs used in the appears to be due.

FALAPEN.—*Constituent:* Benzyl penicillin. It is often difficult to maintain an adequate blood level of penicillin by the oral use of benzyl penicillin both because of the rapidity of absorption and the rate of destruction by gastric enzymes. Falapen represents an attempt to achieve a steadier blood level by the use of a cored tablet. The penicillin in the outer shell is absorbed rapidly, but that in the core is protected by a new type of coating, referred to as polymer 37. This coating is insoluble in gastric juice, but dissolves easily in the alkaline secretion of the gut. The rate of absorption is further delayed by the use of solubility controlling substances. Chemical modification of penicillin also influences absorption and rate of breakdown. Phenoxymethyl penicillin is present as the potassium salt in Distacaine V-K, V-Cit-K and Compocillin V-K; hydramine penicillin V is available as Compocillin V. Penidural contains benzathine penicillin and Broxil is the postassium salt of 6 (phenoxypionamido) penicillanic acid.

GEWODIN.—*Chemistry:* 3 N-methyl-(methyl-β-phenyl) ethyl aminomethyl-4-isopropylmorphine. The substituent in the 3-position has a structure also found in methylamphetamine, and the compound may be regarded as a combination of an analgesic and a sympathomi-

metic amine. The analgesic action is increased by the inclusion in the formula of paracetamol and isopropyl phenazone, while any central depression which is often caused by analgesics, is offset by the stimulant action of caffeine, and the effects of the sympathomimetic moiety of the main constituent. Other analgesic compounds containing more than one substance are represented by Valtorin (chlorthenoxazin with phenacetin) and Zactirin (ethioheptazine and acetylsalicylic acid).

MEDRO-CORDEX.—*Constituents:* Methyl prednisone and acetylsalicylic acid. The value of salicylates in various rheumatic conditions is well known. In those cases where salicylates alone are insufficient, the addition of a corticosteroid affords greater relief and control. The newer compounds, when used in that way, are effective in low dose, and undesirable systemic effects are unlikely. Predasin, Cordex and Deltagycortril are similar products, but they contain prednisolone, and prednisone with aspirin is also available. Hydrodyne contains acetylsalicylic acid and hydrocortisone. Chloroquine is present with prednisone and acetylsalicylic acid in Elestol. (Published April 2.)

NEUTRAPEN.—*Constituent:* Penicillinase. An enzyme produced by a variety of Gram-positive and Gram-negative organisms usually obtained from cultures of *Bacillus cereus*. It has the specific property of neutralising the antimicrobial activity of penicillin by converting the antibiotic into the inert penicilloic acid by opening the lactam ring. This is the basis of its use in the treatment of allergic reactions to penicillin. The formation of the enzyme by bacteria plays a significant part in their resistance to penicillin. Penicillinase is used in the B.P. test for the sterility of penicillin, but Neutrapen is a purified injectable form of the enzyme. The substance is a protein with a molecular weight of about 50,000 and occasionally may cause an antigenic reaction by virtue of its protein nature.

NORADREN BITABS.—*Constituents:* Isoprenaline, contained in a sublingual tablet, and ephedrine, theophylline and papaverine in an oral tablet. The combination of bronchodilators and spasmolytics is designed to provide prompt relief from use of the sublingual tablet, with a sustained effect from the constituents of the oral tablet. In Bitabs Nocte the sublingual dose is omitted, and the other constituents are given as two oral tablets, one of which is uncoated but contains a small dose of phenobarbitone. The second tablet, without phenobarbitone, is enteric-coated, and is designed to maintain the anti-asthmatic action for eight hours or so. Isobronchisan is both a sublingual and an oral tablet, and has similar constituents to Noradren Bitabs. The tablet is first placed under the tongue to dissolve the isoprenaline in the outer coat, and then swallowed to obtain the effects of the other constituents. Fydalex is a multilayered tablet, containing isoprenaline in the outer coat, carbomal in the middle, and ephedrine and theophylline in the centre as enteric-coated granules. Fydal is similar, with butobarbitone replacing carbomal. (Published April 2.)

PRIATAN.—*Chief constituent:* 2-Imino-3,4-dimethyl-5-phenyl-thiazolidine hydrothiocyanate, a substance with a number of properties of pharmacological interest. It has spasmolytic, antihistaminic, antiallergic and antisecretory activity. For the treatment of bronchial asthma, those actions are augmented by the inclusion of ephedrine, theophylline and phenyl dimethyl pyrazolone. Ephedrine and theophylline are present in many other preparations designed to achieve a combined therapeutic effect, and Fydal, Fydalex, Isobronchisan, Franol and Tedral are examples of such products, some of which are formulated to have an extended action.

SOVENTOL.—*Chemistry:* N-Phenyl-N-benzyl-4-amino-1-methylpiperidine. An histamine antagonist, the substance suppresses by its action the anaphylactic reactions that follow histamine release. It also has antispasmodic and antipruritic activity, and some central sedative action. In Soventol C the sedative effect is offset by the inclusion of β-cyclohexylisopropyl

methylamine, a mild central stimulant. A number of other antihistamines have antipruritic properties. Other products for external use include Teveex, Eurax, Polycrest and Viancutan.

SURFADIL.—*Constituents:* Cyclomethycaine and thienylpyramine. The former is an anaesthetic related to piperocaine, but suitable for local use only. As it is not a derivative of p-aminobenzoic acid, it does not affect, and is not affected by the sulphonamides. Thienylpyramine is an antihistamine which also possesses some local anaesthetic potency.

TECALDRINE.—*Constituents:* Methapyriline, dextromethorphan and expectorants. Methapyriline is one of the milder antihistamines; dextromethorphan, which is closely related to the analgesic levorphanol, has specific antitussive properties, but no significant narcotic or analgesic action. Methapyriline is present together with codeine and ephedrine in Histadyl EC and dextromethorphan alone is issued as Romilar. (Published Feb. 6.)

TERSAVID.—*Chemistry:* 1-benzyl-2-pivaloylhydrazine. Inhibits the action of monoamine oxidase, the enzyme concerned with the deactivation of certain amines that occur in the brain and other tissues; suppression of its activity enables the amines to exert a longer action. A number of such inhibitors are used in mental disorders, and also in angina pectoris. In the latter condition the central stimulant action of these inhibitors may be undesirable, as it may encourage anginal patients to unwise activity. Tersavid has no significant euphoric action, and so has a more specific effect in relieving anginal pain. Marplan (isocarboxazid) and Marsilid (iproniazid) are examples of related compounds which have a similar action in angina. These drugs, however, have a less specific action, and side effects may be undesirable.

VERSITOL.—Protein hydrolysate, containing amino acids and polypeptides. As proteins must be broken down by the digestive processes before they can be absorbed as the constituent amino acids, protein hydrolysates represent a pre-digested form of alimentation. Such products are of value when normal digestion is impaired or metabolic demands are high. Aminosol Vitrum is a similar product in powder form. Aminosol solution and Aminosol Vitrum infusion are solutions of protein hydrolysates intended for intravenous injection; Trophysan is a solution of the individual amino acids together with trace elements and vitamins. (Published May 21.)

AMERICAN APPROVED REMEDIES

DEXCHLORPHENIRAMINE MALEATE (polar-amine maleate). — *Chemically:* d-[p-Chloro-a-(2-dimethylaminoethoxy) benzyl] pyridine maleate, the dextrorotatory isomer of racemic chlorpheniramine maleate, in which isomer pharmacological studies have shown antihistaminic activity primarily to reside. The drug is administered orally. For adults, the usual dose is 2 mgm. three or four times daily reduced to one-half for children under twelve years of age and to one-fourth for infants. Available as syrup (0.4 mgm. per mil), as 2-mgm. tablets, and as repeat-action tablets (4-mgm. and 6-mgm.). *Data supplied by* Schering Corporation.

SULPHINPYRAZONE (Anturan). — *Chemically:* 1,2 - Diphenyl - 4 - (2' - Phenylsulphinethyl) - 3,5-pyrazolidinedione, a uricosuric agent of value in the treatment of gout. The analgesic relief missing in it is provided by concomitant administration of colchicine, etc. Antagonised by salicylates. Available as 100-mgm. tablets. *Data supplied by* Geigy Pharmaceuticals, division of Geigy Chemical Corporation.

TRIMETHOBENZAMIDE HYDROCHLORIDE (Tigan hydrochloride). — *Chemically:* N-(Dimethylaminoethoxy benzyl)-3,4,5-trimethoxybenzamide hydrochloride. An antiemetic substance that may be administered orally, rectally or intramuscularly. Available as 100-mgm. capsules; as 200-mgm. suppositories; and as an injection solution containing 200 mgm. in 2 mls. *Data supplied by* Roche Laboratories division of Hoffmann-LaRoche, Inc.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 29: Though trading in CRUDE DRUGS during the week continued dull, prices of most commodities, when tested, proved remarkably steady.

Brazilian MENTHOL was dearer by sixpence per lb. both in bond and at origin. White PEPPER during the past two weeks has sharply advanced. Although there is not really any shortage of stocks on the spot supplies are very firmly held; meanwhile shipment quotations have begun to sag. TURMERIC for shipment was quoted at 93s. 6d. per cwt., c.i.f. (against 87s. 6d.). IPECACUANHA values showed a slight easing on those quoted previously but there was no Nicaraguan material being offered, nor was any accepted before September. HONEY has now become a firm market, a shortage having developed, particularly so in the Australian medium-amber. SENEGA was offering at 18s. per lb., c.i.f.

In ESSENTIAL OILS the price of LEMONGRASS was again firmer by threepence per lb. Ceylon CITRONELLA was down twopence per lb. on the spot and Brazilian PEPPERMINT by threepence for shipment.

POTASSIUM IODIDE was marked up by ninepence per kilo by some manufacturers and others are expected to follow the new rates. A good call for certain seasonal articles was noted.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals. One-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ANEURINE HYDROCHLORIDE. — 1-kilo, £11 15s.; 10-kilos, £11 7s. 6d. per kilo.

ASCORBIC ACID. — One-kilo, £3 12s.; 10 kilos; £3 10s. per kilo. SODIUM ASCORBATE is offered at the same price.

BENZYL BENZOATE. — B.P. in 1-ton lots, 4s. 6d. per lb.

BORAX. — B.P. grade, 1 ton and upwards; Granular, £56; crystals, £59 10s.; powder, £60 10s.; extra fine powder, £61 10s. per ton, all in hessian sacks. Commercial from £46 to £51 10s. per ton, as to type and packing. Dehydrated borax is £70 per ton in paper-lined hessian bags or £69 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

BORIC ACID. — B.P. grade in 1 ton and upwards (per ton): Granular, £91; crystals, £99; powder, £96 10s.; extra-fine

powder, £98 10s. per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £77 to £86 10s. per ton according to type and packing.

CALCIFEROL. — B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM PANTOTHENATE. — £8 per kilo.

CYANOCOBALAMIN. — 25-gm. lots, £39 per gm., and 1 gm., £40.

DIGOXIN. — 100-gm lots, 78s. per gm.

DIHYDROXY-ACETONE. — Per kilo £12 minimum 1 kilo lots.

ETHER. — Per lb. in winchesters: TECHNICAL B.S.S., and SOLVENT, 5-cwt. 2s. 7d.; (4s. 1d. per litre). In drums the price is 2s. 2d. per lb. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d.

FOLIC ACID. — B.P. and U.S.P., 1s. per gm. 1-kilo lots; smaller lots, up to 1s. 6d. per gm.

GLYCERIN. — Pharmaceutically pure (s.g. 1.2627): —

Annual purchases or spot lots of	Under 1 cwt.	1 cwt. and under 5-cwt.	5 cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Per cwt. TINS	s. d.	s. d.	s. d.	s. d.	s. d.
14-lb.	281 0	276 0	272 6	268 0	265 6
28-lb.	279 0	274 6	270 6	266 0	263 6
56-lb.	275 0	270 6	266 6	262 0	259 6
DRUMS					
1-cwt.	—	254 6	250 6	246 0	244 6
2½-cwt.	—	251 6	248 0	243 6	242 0
5-cwt.	—	—	247 6	243 0	241 6
10-cwt.	—	—	246 6	242 6	241 0

For 25 tons and upwards the price is from 265s. 6d. to 240s. as to containers. Bulk deliveries in tank wagons from 236s. to 237s. 6d. Technical grade glycerin, s.g. 1.2627, is 5s. per cwt. less than the above.

HYDROCYANIC ACID. — Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

HYOSCINE HYDROBROMIDE. — Per oz., 102s.

ICHTHAMMOL. — B.P. from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

IODIDES. — (Per kilo). POTASSIUM, 50-kilo lots 16s.; SODIUM, 20s. 6d.; AMMONIUM, 45s.

MANDELIC ACID. — One-cwt. lots, 12s. 6d. per lb. CALCIUM SALT also 12s. 6d. SODIUM MANDELATE, 13s. and AMMONIUM MANDELATE 50 per cent. solution, 7s. 6d.

MENAPHTHONE. — B.P., 170s. per kilo; ACETOMENAPHTHONE, B.P., 170s.; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), 200s. per kilo.

MERCURY DERIVATIVES. — Quotations (per kilo) for less than 50-kilo lots: —AMMONIATED, B.P., lump or powder, 57s. 9d.; PERCHLORIDE, B.P., powder, 49s. 6d. and lump, 50s. 9d.; SUBCHLORIDE (calomel), B.P., 56s. 9d.; OXIDES, yellow, B.P., 60s.; red B.P.C., 1949, 61s. 3d.

NICOTINAMIDE. — (Per kilo). One-kilo, 61s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID. — One-kilo, 39s.; 50-kilos, 36s. per kilo.

NIKETHAMIDE. — Per kilo, 100s.

QUINALBARBITONE. — Under 25-kilos, 130s. per kilo.

RIBOFLAVINE. — One kilo, £13 17s. 6d.; 10-kilos, £13 10s. per kilo.

SACCHARIN. — B.P.C. powder. One lb. and over, 99s. 10d. per lb.; SODIUM SALT,

80s. 10d. per lb. Prices include duty and carriage.

SALICYLAMIDE. — One-cwt., 6s. 3d per lb.; 5-cwt., 5s. 11d.

SALOL. — B.P.C., 9s. per lb. (1-cwt. lots).

SULPHOCARBOLATES. — SODIUM PHENOSULPHONATE, B.P.C., 1949 (powder), 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

SULPHUR. — (Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

TANNIC ACID. — The B.P. levis, ex ether, 9s. 9d. per lb.; B.P. powder, 9s. 3d. (1-cwt. lots).

THEOPHYLLINE. — 50-kilo lots: ALKALOID ANHYDROUS, 34s. 6d. per kilo and B.P. 33s. 3d.; AMINOPHYLLINE, 33s. per kilo.

VITAMIN A. — Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 9½d. per million i.u.

VITAMIN D₂. — In oil, 2 million units per gm. the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural). — Tocopheryl acetate, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £31 5s. per kilo; 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and 10d. per gm. and £37 and £35 10s. per kilo.

Industrial Chemicals, Solvents

ACETALDEHYDE. — The 100 per cent. is £122 per ton.

ACETATES. — Per ton, spot 1-ton lots: AMYL (technical), £254, and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL, £136.

ACETIC ANHYDRIDE. — 10-ton lots, £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE. — One-ton lots spot, £84 per ton in drums.

BENZOLE. — Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure, 6s. 3½d. per gall.

N-BUTYL ALCOHOL. — 1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

CARBON TETRACHLORIDE. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. 0½d. per gall. for 10,000-gall. lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE. — One-ton lots, £138 10s. per ton.

NAPHTHALENE. — Home contract prices (per ton for 4-ton lots at one time): —CRUDE, crystallising point 64-71.9° C., £22 5s. to £23; WHIZZED, c.p. 72-77.5° C., £27 5s. to £35 15s. according to the crystallising point, ex works; PHTHALIC grade, minimum c.p. 77.5° C., £42 10s. ex maker's works; CRYSTALS from £62 10s. to £65, delivered; BALL AND FLAKE, £71 to £73 10s. delivered.

PHTHALATES. — Prices (per ton) one-ton lots: DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £190 10s.; DI-METHYL, £182.

SEARATES. — Spot prices for minimum 1-ton lots: —ALUMINIUM (all grades), 253s. 6d. per cwt., CALCIUM (precipitated), 243s. 6d.; LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (super-fine), 302s.; ZINC 226s. to 286s. as to grade.

LONDON EXCHANGE RATES

At the opening on Tuesday

Amsterdam ..	Florins to £	10-57½-10-57½
Bombay ..	Shillings to rupee	1/5½-1/6½
Brussels ..	Francs to £	139-82½-139-95
Copenhagen ..	Kronor to £	19-34½-19-34½
Frankfurt ..	D Marks to £	11-69½-11-69½
Hong Kong ..	Shillings to \$	1/2½-1/3½
Karachi ..	Shillings to rupee	1/5½-1/6½
Lisbon ..	Escudos to £	80-20-80-30
Malaya	Shillings to \$	2/4-2/4½
Montreal ..	Dollars to £	2-74½-2-75½
*New York ..	Dollars to £	2-78-2-82
Oslo	Kronor to £	20-02½-20-02½
Paris	Francs to £	13-75-13-75½
Stockholm ..	Kronor to £	14-47½-14-47½
Zurich	Francs to £	12-09½-12-10½

*Bank of England official limits. Bank rate: 6 per cent. from June 23.

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR. — Kobe No. 1, 13s. 6d. per lb. in bond; shipment, 13s. 6d., c.i.f.

ALOE. — Cape primes, spot, 200s. per cwt. quoted; shipment, 180s., c.i.f., nominal. Curacao, 500s., spot.

BALSAMS.—Per lb.:—CANADA: Spot, 22s. for paper-filtered. COPAIBA: Para scarce on the spot, small lots at 7s. 9d., duty paid. PERU: Spot, 9s. 9d. in bond. TOLU (genuine as imported): small parcel on spot at 24s. per lb.; B.P., 13s. 3d.

BELLADONNA. — LEAVES (t.a. 0.6 per cent.), 2s. 9d. per lb. Dutch for shipment, 2s., c.i.f. Root cleared on the spot.

BENZOIN.—Sumatra block, spot £22 to £30 as to quality.

BUCHU. — Spot rounds, 3s. 6d. per lb., shipment, 3s. 1d., c.i.f.

CALABAR BEANS.—Spot, 1s. 8d. per lb.

CALUMBA.—Root, 100s. per cwt., spot; 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 7½d. per lb. in bond.

CAPSICUMS.—Chinese 155s., duty paid.

CARDAMOMS. — Aleppy greens, spot, 15s. 3d. per lb.; prompt shipment, 14s. 6d., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

CASCARA.—Spot, 295s. per cwt.; prompt shipment, 275s., c.i.f. 1960 peel, July–August, 237s. 6d., c.i.f.

CASSIA.—*Fistula*, 115s. per cwt., spot; *lignea*, 380s., duty paid.

CHERRY BARK. — Thin natural, 1s. 6½d. per lb.; rossed, 1s. 11d.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 4s. 9½d.; 3 O's, 5s. 4½d.; O, 5s. 0½d.; quillings, 3s. 3½d.; featherings, 1s. 7½d.

ERGOT.—Portuguese, 5s. per lb., c.i.f.; spot, 5s. 6d. East European not offering.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt.

GINGER. — African, spot, 175s. July, 165s., c.i.f. Jamaican No. 3, spot, 210s.; shipment, 195s., c.i.f. Cochinchina, shipment, new crop, 160s., c.i.f.; spot, 175s.

GUM ACACIA. — Kordofan cleaned sorts, 172s. 6d. per cwt., spot; July–August shipment, 164s., c.i.f.

HENNA.—Indian, spot, 90s. per cwt.

IPECACUANHA. — Matto Grosso 52s. 6d. per lb., c.i.f. Colombian, 53s. 6d., c.i.f. Costa Rican, 70s., c.i.f. Spot: Matto Grosso, 55s.; Colombian, 56s.

JUNIPER BERRIES.—Italian 90s. per cwt., spot.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

KOLA NUTS. — Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LANOLIN. — ANHYDROUS, B.P. is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL. — Spot, 2s. 6d. per lb.; shipment, 230s., c.i.f.

LINSEED. — Whole, 85s. per cwt.; crushed, 110s.

LIQUORICE. — Natural root: Persian on the spot, 46s. 6d. per cwt. Block juice: Anatolian from 190s. per cwt.; Italian stick from 310s. to 470s. per cwt.

LOBELIA HERB. — American, 4s. 9d. per lb., spot.

MACE. — Whole pale blade, 24s. per lb., spot.

MENTHOL. — Chinese, 66s. 6d. per lb., duty paid; shipment not offering. Brazilian, 53s., in bond; 53s., c.i.f.

NUTMEGS. — West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 6d.; defectives, 7s. 8d.

NUX VOMICA.—Spot, 125s., cwt.; shipment, 105s., c.i.f.

ORANGE PEEL. — Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 9d.; bitter ribbon, 1s. 6d.

ORRIS ROOT.—Florentine, 350s. per cwt.

PAPAIN. — Tanganyikan, 14s. per lb., c.i.f., for grade one, spot, 15s. Ceylon, No. 1 white, 13s. 6d., c.i.f.: brown, 10s., c.i.f.

PEPPER.—White Sarawak spot 5s. 11d. per lb.; shipment, 5s. 6d., c.i.f. Black Sarawak, 4s. 6d. spot and 4s. 6d., c.i.f. Black Malabar, 475s. to 500s. per cwt. spot: 560s., c.i.f.

PEPPERMINT LEAVES. — Dutch whole, 1s. 11d. to 2s. 7d. per lb., c.i.f.

PIMENTO. — Spot, 590s. cwt.; shipment, 500s., f.o.b.

PODOPHYLLUM. — *Emodi*, 200s. per cwt. spot, and 185s., c.i.f., for shipment, *Peltatum*, spot value, 375s.

PYRETHRUM.—Extract, minimum, 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUASSIA. — Spot, 55s. per cwt., ex wharf.

QUILLAIA.—Short. Spot whole bark is now 130s. per cwt. nominal.

RHUBARB. — Chinese small round from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—*Mancha selecta*, 147s. 6d. per lb.

SARSAPARILLA.—Jamaican native red on spot, 2s. 5d. per lb.; shipment, 2s. 1d., c.i.f.

SEEDS (Per cwt.). ANISE. — Bulgarian, 112s. 6d.; Spanish, 165s., duty paid. CARAWAY.—Dutch, 180s., duty paid. CELERY.—Indian unchanged at 145s., spot; shipment quoted at 175s., c.i.f. CORIANDER.—Rumanian, nominal 65s., duty paid; Moroccan, 57s. 6d., duty paid, Moroccan for July–August shipment (new crop), 45s. 6d., c.i.f., quoted. CUMIN.—Indian, 210s.; Iranian, 235s., duty paid; shipment, Indian unchanged at 180s., c.i.f. DILL.—Indian is offered at 95s., spot, shipment, 80s., c.i.f. FENNEL. — Chinese, 92s. 6d., duty paid, Indian nominal 120s. FENUGREEK. — Moroccan, 52s. 6d., duty paid; new crop for July–August shipment, 34s. 9d., c.i.f. MUSTARD.—English, 94s. to 97s. 6d. according to quality.

SENEGA. — Spot, 18s. 6d. per lb.; new crop for July–August shipment, 18s., c.i.f.

SENNA. — *Timevelly* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 9d. PODS: manufacturing (f.a.q.), 9d. and hand-picked, 1s. 6d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; new crop hand-picked, 5s. to 6s.

SHELLAC. — F.O.T.N., 200s. per cwt.; No. 1, 222s. 6d.; F.O., 232s. 6d. to 282s. 6d., spot.

SQUILL.—White 85s. per cwt., spot.

STRAMONTUM. — Indian LEAVES 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

STYRAX. — Spot, 33s. per lb., shipment, 31s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 6d. per lb. Shipment about 7s., c.i.f. Angostura 11s.

TRAGACANTH. — No. 1 ribbon, £135 to £140 per cwt. No. 2, £125 to £130.

TURMERIC. — Madras finger on spot is 105s. per cwt.; new crop, prompt shipment, 93s. 6d., c.i.f.

WAXES. — (Per cwt.). BEES'—Dar-es-Salaam, spot, 485s.; shipment, 478s., c.i.f. Abyssinian, spot 410s. in bond; shipment, 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 440s.; shipment, 380s., c.i.f. CANDELLA, spot, 470s. CARNAUBA, fatty grey, spot, 570s.; shipment, 560s., c.i.f.; prime yellow, spot, 800s., shipment, 765s., c.i.f.

Essential and Expressed Oils

ALMOND. — Moroccan, 6s. per lb., duty paid.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE.—Chinese, 7s. 2d. per lb., spot; shipment, 7s. 2d., c.i.f.

ARACHIS.—Spot, 2–5-ton lots naked ex mill, £142 per ton.

BAY.—West Indian, 12s. 6d. per lb. on the spot.

BERGAMOT.—Spot, from 72s. 6d. per lb.

BOIS DE ROSE.—Brazilian, 15s. 3d. per lb. on the spot and 14s. 9d., c.i.f.

CADE. — Spanish, 3s. 6d. per lb. for drum lots.

CAJUPUT.—Spot from 9s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

CAMPHOR, WHITE.—Chinese, 1s. 8d. per lb. in bond.

CANANGA.—Spot, from 38s. to 46s. 6d. per lb.

CARAWAY. — Imported oil, 26s. 6d. to 37s. 6d. per lb.

CARDAMOM. — From 330s. per lb. for English-distilled and 260s. for imported.

CASSIA. — Spot, 15s. 6d. per lb.; shipment, 15s., c.i.f.

CASTOR.—Home-produced B.P. oil, spot, £158 per ton naked ex mill (2-ton lots).

CEDARWOOD.—American rectified, 6s. 6d. per lb. on the spot.

CELERY SEED. — Dutch oil, 90s. per lb. and Chinese, 65s.

CHENOPODIUM.—Spot value, 36s. per lb. for original containers.

EUCALYPTUS. — Australian 70 to 75 per cent. eucalyptol on the spot is 3s. 6d. per lb. 80–85 per cent., 4s. Spanish (70–75), 3s. 6d. spot. Chinese 3s. to 3s. 6d., duty paid.

FENNEL. — Spanish sweet, spot, 10s. per lb.

GERANIUM. — Bourbon, 185s. to 200s. per lb. on the spot.

GINGER.—Imported; Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

GINGERGRASS.—Spot 27s. 6d. per lb.

GRAPEFRUIT. — Jamaican, 15s. per lb. spot: Florida, 17s. spot.

JUNIPER. — B.P.C. 1949 oil is from 12s. 6d. per lb. on the spot. English-distilled, 180s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot, 6s. to 9s. per lb. for original drums.

LAVENDER.—From 24s. to 37s. 6d. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 13s. 9d. per lb. for original drums.

LEMON.—B.P. grades from 16s. per lb., spot; Sicilian, 25s. 6d. Terpeneless, 500s. per lb.

LEMONGRASS. — Spot, 12s. per lb., and shipment, July–August, 11s. 6d.

PEPPERMINT. — *Arvensis*: Chinese spot, 37s. per lb. Brazilian, 16s. spot and shipment, 15s. 9d., c.i.f. *Piperita*: Italian "Mitcham-type" from 42s. 6d. to 48s. 6d.; American, 25s. to 30s., as to origin.

TANGERINE.—From 17s. 6d. to 26s. per lb., as to quality, spot.

UNITED STATES REPORT

NEW YORK, JUNE 28: The price of GUM ACACIA amber sorts, at 24½ cents was down 1 cent per lb. Bourdon GERANIUM OIL advanced \$3 to \$30 per lb., a new high level. The quotation is virtually nominal in view of the shortage of materials here and at the primary centre. Lower per lb. were SPEARMINT OIL at \$9.60, down 15 cents and distilled LIME, \$6.00, down 25 cents.



In illnesses such as measles, mumps and tonsillitis, where the feeding of children is a real problem, Complan is the simple effective way of keeping youngsters fully nourished. From the critical stage of the illness right through to the final phase of convalescence, two or three cups daily of easily digestible Complan (so simply prepared and flavoured to taste) provide the high protein-vitamin-mineral intake to build up the patient and make her fully fit again. Complan—the complete answer to most feeding problems.

IN CRISIS AND CONVALESCENCE

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provides *complete* nourishment

COMPLAN
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***Contains every
nutrient essential
to life***

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'SAXIN'

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**Summer Slimmers
mean all-the-year
PROFIT for you**

This Summer many thousands of men and women slimmers have turned to 'SAXIN', the non-fattening sweetener. Once converted to the use of 'SAXIN', these people can become your regular all-the-year-round customers for 'SAXIN' tablets and solution. So don't let go of this profitable trade—continue to feature 'SAXIN' in your window and on your counter. This will remind the 'weight-conscious' public to come back to you, again and again, for their 'SAXIN' supplies.



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

CUMULATIVE LIST OF AMENDMENTS TO THE C. & D. Quarterly Price List, June 1

A=Advanced; R=Reduced. ENTRIES NEW THIS WEEK ARE MARKED THUS ●

2-Minute Magic (385 DG)	57	0	28	6	9	6			
Achromycin (746 Lederle)									
capsules 50 mgm	25	10	10ea		16	3 TS			
100	40	6ea		60	9 TS				
250 mgm	16	29	0ea		43	6 TS			
100	174	2ea		261	3 TS				
1000	1682	4ea		2523	6 TS				
for ear solution									
vial powder 50 mgm	6	10ea		10	3 TS				
vial diluent 10 cc									
intramuscular vial									
100 mgm	5	2ea		7	9 TS				
intravenous vial 100 mgm	4	8ea		7	0 TS				
250 mgm	9	8ea		14	6 TS				
500 mgm	17	6ea		26	3 TS				
ointment 3% 30 mgm 1 oz	4	6ea		6	9 TS				
8	2ea			12	3 TS				
ointment ophthalmic 1%									
10 mgm 6 x 1/2 oz tubes	6	10ea		10	3 TS				
ophthalmic powder									
sterilised vial	5	6ea		8	3 TS				
for oral suspension									
1-5 gm 1 oz	10	10ea		16	3 TS				
ophthalmic oil suspension 1% 10 gm/cc									
dropper 6 cc	1	10ea		2	9 TS				
pediatric drops 10 cc	7	4ea		11	0 TS				
soluble tablets 100	40	6ea		60	9 TS				
syrup 2 oz	10	10ea		16	3 TS				
16 oz	78	0ea		117	0 TS				
tablets 50 mgm 25	10	10ea		16	3 TS				
100	40	6ea		60	9 TS				
250 mgm 16	29	0ea		43	6 TS				
100	174	2ea		261	3 TS				
1000	1682	4ea		2523	6 TS				
troches 15 mgm 25	4	2ea		6	3 TS				
Achromycin, V (746 Lederle)									
capsules 250 mgm 16	29	0ea		43	6 TS				
100	174	2ea		261	3 TS				
1000	1682	4ea		2523	6 TS				
50 mgm 25	10	10ea		16	3 TS				
100	40	6ea		60	9 TS				
pediatric drops 10 cc	7	4ea		11	0 TS				
syrup 2 oz	10	10ea		16	3 TS				
16 oz	78	0ea		117	0 TS				
Alfonal (29 Alfonal)									
corn oil 1/2 gall	12	0ea		15	0				
sunflower seed oil 1/2 gall	18	9ea		25	0				
Delete Altex (339 CG) sanitary towels									
D17									
D16									
Ambramycin (70 Aspro)									
capsules 250 mgm 16	29	0ea				TS			
60	104	6ea				TS			
250	423	4ea				TS			
oral suspension 2-5% 60 mils	10	10ea				TS			
Amphedrex (195 Brook Parker)									
tablets 25	9	0		1	2	pls4B			
1000	9	0ea				pls4B			
Ampins (339 CG) for bee keepers									
box of 3 No. 9B	5	0ea		6	3				
box of 5	8	0ea		10	0				
Andre Philippe (48 AP)									
after shave lotion 4 oz	102	15	0	7	6	2	6		
after shave talc puffer	103	15	0	7	6	2	6		
Ann French (655 ICC)									
golden tan		18	0	9	0	2	9		
cleansing cream		15	9	7	11	2	6		
Anthical (S14 M&B)									
cream 1 oz	20	0	5	0	2	11			
Apiella (450 Farthing)									
clear skin lotion	6 oz	57	0	27	10	9	6		
vitaliser plus	2 oz	252	0	122	10	42	0		
Aprinox (147 Boots)									
tablets 2-5 mgm 100	11	6ea		15	4				
500	52	0ea		69	4				
5 mgm 100	19	3ea		25	8				
500	92	9ea		123	8				
Artane (746 Lederle)									
elixir 16 oz	9	10ea		14	9				
tablets 2 mgm 100	7	0ea		10	6				
1000	58	6ea		87	9				
5 mgm 100	14	0ea		21	0				
1000	116	2ea		174	3				
● Asmaval (378 DCBL)									
tablets 25	24	0		3	0	pls4B			
100	72	0		9	0	pls4B			
● Aureomycin (340 C of GB) powder 2%									
puffer 15 gm (vet)	66	0				TSVPO			
ointment 3% 1/2 oz (vet)	42	6				TSVPO			
ophthalmic ointment 1% 1/2 oz (vet)	16	0				TSVPO			
Ayrotabs (78 AS&Co)	50	40	0	10	0	6	4		
Ayrton (78 AS&Co) tablets									
iron, vitamin and yeast (Ivy)	16	0		2	0				
face cloths 'Smart Set' 301	18	0		2	6				
hot water bottle 'The Argosy'	52	0		6	6				
scissors toe nail Edgware									
401									
Delete tower display									
Delete									
Barnet (617 Holloway)									
ladies brush sets Duetto A11	61	4	15	4	8	11			
A13	86	4	25	2	12	11			
A14	109	0	27	3	15	11			
A15	128	0	35	0	18	11			
Delete									
A16, A17									
Annette A29	61	4	15	4	8	11			
A30	102	0	25	6	14	11			
Juliette A31	64	8	16	2	9	6			
A32	109	0	27	3	15	11			
Colette A33	40	6	10	1 1/2	5	11			
babies brush sets A27	26	10	6	8 1/2	3	11			
A28	33	8	8	5	4	11			
gents brush sets A35	32	8	8	2	4	11			
Bartex (477 AF&B)									
superlens clipovers					7	6			
superlens sunglasses					7	11			
					12	9			
					15	11			
Becosed (901 Norton)									
elixir 16 oz	96	0						pls4A	
80 oz	348	0						pls4A	
Bedeman (102 CB)									
lemon cream shampoo	21	9	5	5 1/2	1	0			
3 doz			3 doz						
Biotta (612 Hobson)									
vegetable juice									
carrot, beetroot, tomato	85	6			9	6			
celery	89	3			9	11			
Bisodol (655 ICC) powder									
30	30	3	7	7	4	0			
tablets 15	2	3	10	2	0				
100	36	0	9	0	4	9			
● Breck (1169 GS & S)									
hair set mist aerosol 5 1/2 oz	75	0	37	6	12	6			
16 oz	126	0	63	0	21	0			
● Elimin shampoo 4 oz	41	0	10	3	5	11			
Broxil (1393 BRL)									
syrup 60 mils	222	0			18	6 TS			
tablets 125 mgm	24	192	0		24	0 TS			
250 mgm	24	352	0		44	0 TS			
125 mgm	12								
250 mgm	12								
Buto (128 Biometica)									
hair remover	13	6	6	9	2	3			
Calcipen-V (147 Boots)									
125 mgm 60 mils	106	0			13	3 TS			
Cambison (614 Hoechst) ointment									
(distributors 621 Horlicks)									
0-25% 5 gm	40	0	9	9	5	10 TS			
20 gm	128	0	31	2	18	7 TS			
5 gm	64	0	15	7	9	3 1/2 TS			
0-5% 20 gm	204	0	49	9	29	8 TS			
Camyna (969 Pfizer)									
tincture 20 mils	4	3ea	0 1/2 ea	7	6				
lotion 20 mils	4	0ea	1	0ea	7	0			
Caphedrodine (211 Butler)									
16 oz	174	0			21	9			
80 oz	840	0			105	0			
Carboxymethylcellulose (746 Lederle)									
jelly 4-5% 2	4ea				3	6			
Carters (1003 PP) little liver pills	9	7	2	5	4				
4 doz			4 doz						
Cascade (814 M&B)									
photographic wetting agent									
30 mils	36	0			4	6			
500 mils	120	0			15	0			
Censedal (814 M&B)									
tablets 200 mgm	500	560	0		70	0 pls4A			
Chanel (247 Chanel) toilet soap,									
bath 20	8	5	2	3	0				
37	10	9	6	5	6				
Chase Biocel (327 WC)									
remove cleansing cream	49	6	24	9	8	3			
skin beauty cream	49	6	24	9	8	3			
moisturising cream	49	6	24	9	8	3			
hand cream	31	6	15	9	5	3			
Chesties (1215 Teasdale) 5 lb	2	11b	7 1/2 lb	1	0qtr				
Choice (1388 Durazone)									
garden spray aerosol 6 oz	29	9			2	11			
Christmas in July (150 Bourjois)									
skin perfume	48	8	24	4	8	6			
perfume purse flacon	54	4	27	2	9	6			
presentation	111	6	55	9	19	6			
"Spray Mist"	100	0	50	0	17	6			
cologne stick	31	6	15	9	5	6			
toilet soap	39	6	9	10 1/2	5	9			
bath cubes	26	0	13	0	4	6			
talcum	31	6	15	9	5	6			
Cologne	60	0	30	0	10	6			
Clearasil (1277 Vick)									
30	10	7	8 1/2	4	6				

	eye liner liquid	63	0	31	6	10	6	Hetrazan (746 Lederle)	..	100	10	0ea	..	15	0								
	frosted ..	87	0	43	6	14	6	tablets 50 mgm	..	1000	83	6ea	..	125	3								
	brush ..	65	0	32	6	9	6																
	eye shadow stick ..	87	0	25	6	8	6	Hibitane (649 ICI)	antiseptic lozenges	250	270	0	..										
	eye shadow pan ..	51	0	43	6	14	6	Houseproud (942 Passmill)	extra soft toilet tissue		7	8	..	1	3								
	gold, silver, gold bronze	105	0	52	6	17	6	Heparin (147 Boots) injection B.P.	1,000 i.u./mil vial 5 mls		34	0	..	4	3								
	platinum, platinum/gold	147	0	73	6	24	6		5,000 i.u./mil vial 5 mls		120	0	..	15	0								
	eye shadow brush ..	72	0	36	0	10	6		25,000 i.u./mil vial 5 mls		540	0	..	67	6								
	mascara cake ..	45	0	22	6	7	6		powder 20,000 i.u. 1 lb.		122	0	..	15	3								
	refills ..	30	0	15	0	5	0		100,000 i.u. 1 lb.		516	0	..	64	6								
	roll on ..	81	0	40	6	13	6	Huskolein (358 D&S)	20 oz		140	0	40	0	20	0							
	refills ..	52	6	26	3	8	9		1 gall		665	0	190	0	95	0							
	frosted roll on ..	93	0	46	6	15	6																
	remover pads ..	63	0	31	6	10	6																
●	Feedrite (454 Feedrite)	63	0	..	..	7	11																
	"Extra" feeder ..																						
	Fennings (1100 JS)																						
	cooling powders children's 5	45	0	11	3	6																	
	gross																						
	little healers ..	60	0	15	0	8																	
	gross																						
Delete	tablets adults ..	30	..	..	..			Inecto (1028 Rapidol)	hair colour creme for men	40	0	20	0	6	8								
	Ferrodic (34 A&H)	54	0	..	..	6	0																
	tablets ..	9	4ea	..	..	14	0																
	Folvite (746 Lederle) elixir 4 oz	8	Sea	..	..	13	0																
	solution 15 mgm/ml	9	2ea	..	..	13	9																
	vial 10 mls ..	85	0ea	..	..	127	6																
	tablets 5 mgm ..	1000																					
●	Flagyl (814 M&B) tablets	200	mgm	..	..	21	4	Ismelin (262 CIBA)	tablets 10 mgm	25	8	Sea	..	13	0								
	Floid (900 Norton) after shave	33	0	16	6	5	6			100	32	4ea	..	48	6								
	with tan	52	6	26	3	8	9			500	157	4ea	..	236	0								
	electric pre-shave ..	51	0	25	6	8	6			25	20	0ea	..	30	0								
		87	0	43	6	14	6			100	76	4ea	..	114	6								
		45	0	22	6	7	6			500	376	Sea	..	565	0								
		72	0	36	0	12	0	Delete	I-So-Gel (34 A&H)	150	gm	..	..	..	..				
	Folvron (746 Lederle)	capsules ..	13	0ea	..	19	6	Delete	Jadit (614 Hoechst)	200	gm	56	0	14	0	7	0						
	elixir ..	1000	110	6ea	..	165	9		(distributors 621 Horlicks)	300	gm	..	..	..	..	..		
	tablets ..	16 oz	12	10ea	..	19	3		ointment ..	20	gm	28	0	6	10	4	1						
		1000	110	6ea	..	165	9		solution ..	30	mls	52	0	12	8	7	7						
	Framycort (502 Genatosan)	sterile eye and ear drops	5	mls	58	0	..		powder ..	40	gm	52	0	12	8	7	7						
									Jadit 'H' (614 Hoechst)	(distributors 621 Horlicks)													
	Framygen (502 Genatosan)	sterile eye and ear drops	5	mls	45	0	..		ointment ..	5	gm	70	0	17	1	10	2	TS					
									solution ..	6	mls	96	0	23	5	13	11½	TS					
	Freezheat (191 BVF) Vax	16 oz	57	0	7	0	6	11	A	Jane Seymour (665 JS)	mascara eye shadow palette	235	15	0	7	6	2	6					
	X16	..	..	..	..	..	..	..			eye shadow palette	236	15	0	7	6	2	6					
Delete	16 oz V11, V12	22	9	5	8½	2	11				Karvol (324 Crookes)	inhalant capsules	10	16	0	4	0	2	4				
	Fynnon (104 BP) salt	51	0	25	6	8	6				Kent (693 Kent) brushes	shaving 90% badger,											
	Gala (876 MP) "Bronze	96	7	..	..	11	6				10% bristle ..	K52	34	5ea	8	4ea	60	0					
	"Touch" lotion	180	7	..	..	21	6				tooth, badger ..	KB42	39	4	..	..	4	11					
	Gev-e-tabs (584 H)	16 days	..	..	..	..	..				A	Kilkoif (939 Parkinson)	.. 3 oz	14	9	3	8	2	0				
	32 days	180	7	..	..	21	6				●	Kleenex (702 KC) kitchen roll	holder	15	9	..	..	1	9				
	Gevalr (746 Lederle)	capsules	11	4ea	2	10ea	19	10				Kleinerts (706 Kleinerts) baby pants	Frolic 2183	..	..	..	..	4	11				
	Gin Fizz (Lubin (1 Abbey))	soap box of 3	102	0	25	6	13	6					extra large	..	44	0	..	..	5	6			
	talc	62	0	31	0	10	3					Kolynos (655 ICC)	super white dental cream	13	10	3	6	1	10				
	Glean (504 GP&B)	lens tissues	7	6	..	..	6						denture powder	13	3	3	4	1	9				
		2 doz	30	3	..	..								20	8	5	2	2	9				
	Glucjuice (430 Euceryl)	tablets ..	250	128	0	..	14	3				Ledercort (746 Lederle)	tablets 4 mgm	30	37	6ea	..	56	3	TS			
	Gluterate (1352 Wyeth)	tablets ..	250	128	0	..	14	3						100	120	0ea	..	180	0	TS			
	Glumorin (452 FBA)	tablets 30 bu	20	130	0	..	16	3						500	550	0ea	..	825	0	TS			
	Glycinal (830 Medo) tablets 50	250	56	0	..	..	7	0						30	21	0ea	..	31	6	TS			
			18	6ea	..	..	27	9						100	60	0ea	..	90	0	TS			
A	Goya (532 Goya) perfume	handbag phial ..	1	24	0	12	0	4	0					500	279	0ea	..	418	6	TS			
	classic flacon ..	3	63	6	31	9	10	6	..					acetone cream 0-1% 5 gm	4	2ea	..	6	3	TS			
	gift flacon ..	4	126	9	63	4½	21	0						15 gm	10	4ea	..	15	6	TS			
	royal flacon ..	6	603	0	301	6	100	0						ointment 0-1% 5 gm	4	2ea	..	6	3	TS			
	bath dusting powder ..	16	63	6	31	9	10	6						15 gm	10	4ea	..	15	6	TS			
	perfumed cologne 1 oz	24	24	0	12	0	4	0															
	gift size	26	39	3	19	7½	6	6															
	beauty puff cocktail	compact ..	55	27	0	13	6	4	6					Lederkyn (746 Lederle)	suspension	2	oz	8	0ea	..	12	0	pls4B
	kiss swivel stick ..	63	27	0	13	6	4	6							16 oz	56	8ea	..	85	0	pls4B		
	golden case ..	65	33	3	16	6	5	6							tablets ..	24	15	8ea	..	23	6	pls4B	
	gold metal compact ..	51	0	25	6	8	6									100	58	8ea	..	88	0	pls4B	
●	G.P. (339 CG) toilet soap	6	0	1	6	11										500	276	4ea	..	414	6	pls4B	
	Gualime (940 PK)	28	9	..	..	3	0																
	Guavim (940 PK)	28	9	..	..	3	0																
	Guavo (940 PK)	28	9	..	..	3	0																
	Gynomin (276 C&C) tablets 12	31	6	..	..	3	6																
	Hanovia (1373 Hanovia)	prescription lamps																					
	model 4 UV only ..	..	..	..	..	440	0																
	6 UV and IR	..	..	..	..	500	0																
	7 UV and IR	..	..	..	..	540	0																
Delete	Halimalt (324 Crookes)	8 oz	..	..	..	..	..											
	16 oz	..	..	..	..	..	..										
	Hansons (202 Bryten)	catarrh compound ..	12	6	3	1	2	0															
	adult cough balsam ..	13	6	3	4	2	3																
	M.E. (1063 Rimmel) His Excellency	aerated shaving lather	44	8	11	2	6	6															
	after bath body rub ..	39	0	19	6	6	6																
	body talcum ..	33	0	16	6	5	6																
	after shave lotion ..	27	0	13	6	4	6																
	anti-dandruff shampoo	37	8	9	5	5	6																
	anti-perspirant and																						
	deodorant spray ..	33	0	16	6	5	6																
	pre-electric shave lotion	33	0	8	3	5	6																
	tonic hair dressing ..	33	0	16	6	5	6																

			12	30	0 ..	..	3	9
		dpl100	180	0 ..	..	..	22	6
		dp300	480	0 ..	..	..	60	0
	Vari-dase (746 Lederle)	buccal tablets						
		..	12	21	Sea	..	32	6 TS
	Vasogen (720 Lactogol)	silicone ..	50 gm	46	3	11 7	6	6
A	Veet (343 DH) ..	..	..	16	4	8 2	2	6
				22	10	11 5	3	6
	Veracril (814 M&B)	tablets 5 mgm	..	50	36	0 ..	..	4
		..	500	300	0 ..	..	..	37
		25 mgm	..	50	110	0 ..	..	13
		100 mgm	..	500	980	0 ..	..	122
		..	50	380	0 ..	..	..	47
		ampoules 2·5% 1 mil	..	500	3340	0 ..	..	430
		..	10	100	0 ..	..	..	12
	Versitel (108 Bell)	16 oz	..	54	0 ..	..	..	6
		..	16 oz	13	6ea	..	..	18
	● Vetidrex (262 CIBA) tablets	25	..	8	8ea	..	..	13
		100	..	32	8ea	..	..	49
Delete	Virules (120 BGP)	gels 800 iu	..	10	10ea	8ca	21	0
	Viures (182 BGP)	..	..	10	10ea		390	0
	Vita-E (127 Bioglax)	..	..	12	0	6	0	2
●	Vitapointe (484 Fulford)	..	..	12	0	6	0	2
	Viules (147 Boots)	Hydrocortistab	..	6	8	3ea	..	11
		25 mgm./mil	..	6	16	6ea	..	22
		50 mgm/2 mils	..	6	42	0 ..	..	5
		morphine sulphate gr 1/mil	..	6	120	0 ..	..	15
		heparin,	single	120	0 ..	..	..	0
		25000 IU/ml	..	15	0			
	Warricks (1311 Warrick) lined, dyne lozenges ..	liquorice and chloro- dyne lozenges ..	2 oz	7	6	..	..	11
	Wellcome (208 BW) aminophylline BP intramuscular 0·5 gm in 2 cc	..	..	5	33	9 ..	..	3
Delete	Woodwards (1346 Woodward)	pack of ..	..	6	..	..	..	3
	Wyovin (1352 Wyeth)	grape water ..	..	17	8	4 3	..	2
		tablets ..	..	50	54	0 ..	..	6
		with phenobarbitone	50	63	0 ..	..	..	7
	Yardley (1355 Yardley)	hair tonic for men	2231	36	0	18 0	6	0
		eau de cologne for men	2029	97	0	48 6	16	2
		after shave lotion	2059	58	0	29 0	9	8
		Florentine lipstick case	..	45	0	22 6	7	6
Delete	Yaya (261 Christy)	lipstick ..	69	..	..	..	..	3
		deodorant stick	..	19	6	9 9	3	3
		mini-france	..	75	0	37 6	12	6
		roll-on ..	..	27	0	13 6	4	6
		refills ..	..	21	0	10 6	3	6

ADDITIONS TO KEY TO SUPPLIERS :

(76 Atkinson)= J. & E. ATKINSON, LTD., 24 Old Bond Street, London, W.I.

(89 Bairant)=BAIRANT,LTD., 186 Campden Hill Road, London, W.8.
Park 7781.

(100 Beaucaire)=BEAUCAIRE LABORATORIES, Bridson Street, London,S.E.15. New Cross 7144.

(108 Bell)=BELL & SONS LTD., Gascoyne Street, Liverpool, 3. Central 3367.

Delete (120 BCP).

(120 BGP)=B.G.P. COSMETICS, LTD

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 25

For preparations for protecting and preserving plants; insecticides, fungicides and vermin destroying preparations, weed killers, moth repelling and destroying preparations, insect repelling preparations for human and veterinary use, and disinfectants (5)

GUESAPRIM, 800,252, by J. R. Geigy, S.A. (J. R. Geigy, A.G.), Basle, Switzerland.

For synthetic hormones, being chemico-pharmaceutical products (5)

ADROYD, 800,883, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Staines Road, Hounslow, Middlesex.

For pharmaceutical preparations and substances for human and veterinary use; and sanitary substances and disinfectants (5)

SULMOX, 801,025, by Imperial Chemical Industries, Ltd., London, S.W.1.

For flashguns for photographic purposes (9)

SPORTILUX, 799,643, by Ilford, Ltd., Ilford, Essex.

For cinematographic and photographic projectors, and frames for viewing transparencies (9)

SPORTSVIEW, 799,644, by Ilford, Ltd., Ilford, Essex.

For sterilising apparatus for surgical purposes (10)

INFERATION, 800,245, by Inferation, Ltd., Camberley, Surrey.

For surgical ligatures made of netting or in the form of bands, and surgical dressings, all made from threads or from fibrous materials; plasters (medical and surgical), and materials prepared for bandaging (5) and *for surgical sutures, and bandages* (10) and *for combs, sponges, brushes, and materials prepared for brush-making* (21)

GRINICAND, 800,715-17, GRINILIND, 800,724-26, by Veb Thüringisches Kunstfaserverwerk "Wilhelm Pieck" Schwarza, Rudolstadt, Germany.

For natural sponges and cellulose sponges (21)

WILDFIRE, 801,642, by Leslie Marks & Co., Ltd., London, E.C.2.

For hairnets (26)

HEADLINERS, Z796,948, by Raywarp Textiles, Ltd., Nottingham.

From the "Trade Marks Journal," June 1

For dentifrices (3)

ASBA, 776,507, by "Asba" A. & M. Lob-Senn, Geneva, Switzerland.

For perfumes, non-medicated toilet preparations, and cosmetics (3)

RIVER OF DREAMS, 798,146, by Rimmel, Ltd., London, W.1.

For cleaning and degreasing liquids and preparations, none being for use in industrial processes or in the course of manufacture (3)

GENKLENE, 799,710, by Imperial Chemical Industries, Ltd., London, S.W.1.

For perfumes, non-medicated toilet preparations and cosmetic preparations, all for export except to the Irish Republic (3)

LANTIS, QUIVER, ATLANTIS, 801,259-61, by Reckitt, Colman, Chiswick (Overseas), Ltd., Hull, Yorks.

For pharmaceutical and veterinary preparations, all for oral administration (5)

DASCOTE, 789,538, by Universal Laboratories, Ltd., Folkestone, Kent.

For herbicides (5)

PABRACE, 791,853, by Paul Bracey, Landford, Salisbury, Wilts.

For preparations for killing weeds and destroying vermin and being for sale in England, Scotland and Wales (5)

FISONS CHECK, 794,900, FISONS TIP TOP, 794,902, by Fisons, Ltd., Felixstowe, Suffolk.

For pharmaceutical preparations for internal human use (5)

MINAVAL, 796,054, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For all goods (5)

VIMERAL, 796,055, by Glaxo Laboratories, Ltd., Greenford, Middlesex. THESIT, 799,008, by Desitin-Werk Carl Klinke, G.m.b.H., Hamburg-Othmarschen, Germany. LEPTOVAX-PLUS, 800,640, by Wellcome Foundation, Ltd., London, N.W.1. DEQUAMIST, 801,288, by Allen & Hanburys, Ltd., London, E.2. PETTIMIA, 801,292, by Thomas Pettifer & Co., Ltd.,

Eydon, Rugby, Warwick. LIOFIN, 802,162, by Horlicks, Ltd., Slough, Bucks.

For medicated barrier creams (5)

DYSTAKOL, 796,658, by J. M. Loveridge, Ltd., Southampton, Hants.

For pharmaceutical preparations and substances for human and veterinary use (5)

PRIMASUL, 797,286, by Imperial Chemical Industries, Ltd., London, S.W.1.

For veterinary substances (5)

MOLACIRATE, 799,602, by W. & R. Fletcher (N.Z.), Ltd., Wellington, New Zealand.

For pharmaceutical and veterinary preparations (5)

ACHROSURGIC, 799,803, by American Cyanamid Co., New York, U.S.A.

For pharmaceutical preparations and substances (5)

NARPHEN, 800,211, by T. J. Smith & Nephew, Ltd., Hull, Yorks.

For pharmaceutical preparations and substances for human and veterinary use, all for sale in the United Kingdom (5)

RUSOVAX, 801,857, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For gloves of rubber for household and domestic use (21)

AYROWARE, 801,160, by Ayrton, Saunders & Co., Ltd., Liverpool, 1.

From the "Trade Marks Journal," June 8

For citric acid in tablet form for use in the manufacture of acidified milk (1)

ACILETS, 801,530, by Joh. A. Benckiser, G.m.b.H., Ludwigshaven-on-Rhine, Germany.

For all goods (3)

BURYTE, 795,689, by John Hanlon, Belfast, Northern Ireland.

For detergents (not for use in industrial or manufacturing processes) and soaps (3)

Device with words FAIRY MILD GREEN LIQUID, 796,455, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For soaps, perfumes, non-medicated toilet preparations, essential oils, cosmetics, hair lotions and dentifrices, all containing honey (3)

HONEY TIME, 797,128, by Cullingford of Chelsea, Kirby, near Liverpool.

For soaps and detergents (not for use in industrial or manufacturing processes); and cleaning, polishing, scouring and abrasive preparations (3)

TEND, 799,492, by Co-operative Wholesale Society, Ltd., Manchester.

For technical polishing powders for optical lenses (3)

OPTIPOL, 799,634, by Potter & Clarke, Ltd., Barking, Essex.

For pharmaceutical preparations for use in the treatment of disorders of the skin, and sterilising preparations (5)

STERGENE, 783,445, by Domestos, Ltd., Newcastle-upon-Tyne, 6.

For all goods, but not including invalids' foods (5)

DIETONA, B789,732, by Nestlé Co., Ltd., London, E.C.2.

For pharmaceutical preparations for use by insertion into cavities of the human body (5)

SINCURETTE, B793,939, by Karl Wilhelm Schmidt, Nuremberg, Germany.

For all goods (5)

PARAFON, 795,613, by McNeil Laboratories, Incorporated, Philadelphia, Pennsylvania, U.S.A. KAMYNEX, 797,220, by Royal Netherlands Distilleries, Delft, Holland. RODIURAN, 799,763, by C. H. Boehringer Sohn, Ingelheim-on-Rhine, Germany.

For pharmaceutical preparations and substances for human and veterinary use, all for sale in the United Kingdom (5)

EXALDON, 796,919, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For pharmaceutical preparations and substances for human and veterinary use (5)

SOCATYL, 797,239, by CIBA, Ltd., Basle, Switzerland.

For pharmaceutical preparations and substances for use in the treatment of complaints of the ears (5)

OTOTRANE-C, 799,294, by Ward, Blenkinsop & Co., Ltd., London, W.C.1.

For briefs, being articles of sanitary underclothing (5)

SILCOT, 799,399, by Macdonald & Taylor, Ltd., Ashton-under-Lyne, Lancs.

For pharmaceutical preparations (5)

GEWODIN, 800,108, by Ed. Geistlich Söhne, A.G. für Chemische Industrie, Wölhusen, Switzerland.

For pharmaceutical preparations and substances (5)

LOBIDAN, 800,630, by Uni-Chemie, A.G., Zurich, Switzerland.

For insecticides, fungicides, pesticides and preparations for killing weeds and destroying vermin (5)

SNAROL, 801,518, by E. R. Howard, Ltd., Ipswich, Suffolk.

For medicated confectionery (5)

OROLYPTUS, 801,742, by Fryer & Co. (Nelson), Ltd., Nelson, Lancs.

For analgesics, being goods for sale in the United Kingdom (5)

WINALGIN, 802,353, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For spectacles, spectacle frames and sun glasses (9)

ATRIO, 799,372, by Atrio Optische, G.m.b.H., Solingen, Germany.

For photographic and cinematographic apparatus and instruments and parts and fittings, photographic slides and slide frames, etc. (9)

Device with words VISI TALK, 799,497, by Visual Impact Productions, Ltd., London, S.W.4.

For photographic apparatus and instruments and parts (9)

PHANTAX, 799,646, by Bradley & Bliss, Ltd., Reading, Berks.

For photographic and optical apparatus and instruments, and parts, etc. (9)

RICOFAX, 801,796, by Riken Kogaku Kogyo, K.K., Tokyo, Japan.

For electro-medical devices for use in treating enuresis (10)

EN-U-LARM, 796,313, by Milliwatt, Ltd., London, N.W.1.

For small domestic utensils and containers (not of precious metal or coated therewith), combs and sponges; brushes; etc. (21)

HI! JEANIE, 795,963, by Viceroy Manufacturing Co., Ltd., Toronto, Ontario, Canada.

From the "Trade Marks Journal," June 15

For hand lotions, being non-medicated toilet preparations (3)

LIQUID VELVET, 788,378, by W. Aston & Co., Ltd., Worthing, Sussex.

For preparations for the permanent waving of the hair, shampoos, hair oils, non-medicated hand creams, and washing preparations (3)

GLIMOR, 794,321, by Gema Kemiska Fabrik, A.B., Falun, Sweden.

For preparations and substances for laundry use; cleaning, polishing, scouring and abrasive preparations; soaps (3)

PSY 9, 797,442, by Haus-Chemikalia, G.m.b.H., Ingelheim-on-Rhine, Germany.

For preparations and substances, all for laundry use (3)

TEXOFT, 798,090, by Boots Pure Drug Co., Ltd., Nottingham.

For detergents (not for use in industrial or manufacturing processes) (3)

BRIDGET, 798,284, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For perfumes, toilet preparations (not medicated) and cosmetic preparations (3)

BOOTS SUPERGLO, BOOTS SUPER GLO, 800,234-35, by Boots Pure Drug Co., Ltd., Nottingham.

For starch and starch products (3)

Device with words GAZELLE BRAND, 800,370, by Gordon Slater, Ltd., Manchester, 2.

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, soaps and essential oils (3)

QUICK DATE, 800,468, by International Chemical Co., Ltd., London, N.16.

For hair dyes, and colouring matters for the hair (3)

IMPERIA TONAL, 801,019, by Teeda, Ltd., London, W.C.2.

For non-medicated toilet preparations and cosmetic preparations, all for export except to the Irish Republic (3)

BATHJOY, BATHJOYS, 801,262-63, by Reckitt, Colman, Chiswick (Overseas), Ltd., Hull, Yorks.

For cosmetic preparations (not being toilet preparations) for use by persons suffering from acne (3) and for medicated preparations for use in the treatment of acne (5)

ACNELIA, 792,476-77, by Anna Pegova, Ltd., London, W.C.1.

For pharmaceutical and diagnostic preparations, all for human and veterinary use (5)

CHINOIN, 793,589, by Chinoïn Gyógyszer és Vegyészeti Termékek Gyára Részvénytársaság, Budapest, IV/Újpest, Hungary.

For pharmaceutical preparations for use in the treatment of obesity (5)

STELADEX, 794,865, by Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

For pharmaceutical products (5)

NOVOJECT, 794,977, by Novo Industri, A.S. Copenhagen, Denmark. ULMOSER, 801,285, by Bailly, Ltd., Alpterton, Wembley, Middlesex.

For pharmaceutical preparations (5)

NIVALIN, 795,172, by Chimiko-Pharmazeutischen Zavod, Sofia, Bulgaria.

For all goods (5)

LOMOTIL, 797,008, by G. D. Scarle & Co., Skokie, Illinois, U.S.A. COMPLEGEST, 797,515, by Norgine Pharmaceutical Products (London), Ltd., London, W.C.1. FUROVACE, 798,554, by Norwich Pharmacal Co., Norwich, New York, U.S.A. FLEXILON, 799,221, by McNeil Laboratories Incorporated, Philadelphia, Pennsylvania, U.S.A. HYLOMYN, 801,211, by Calmic, Ltd., Crews, Ches. HALGESIN, 802,890, by Ward, Blenkinsop & Co., Ltd., London, W.C.1.

For pharmaceutical preparations in tablet form (5)

TAMTABS, 798,275, by P. & I. Smith, Ltd., Bletchley, Bucks.

For pharmaceutical preparations and products, all containing sulphonamides (5)

SULPHAMAGNA, B797,447, by American Home Products Corporation, New York, U.S.A.

For pharmaceutical preparations for external use in the treatment of skin complaints (5)

SECADERM, 800,502, by Wade Pharmaceuticals, Ltd., Bishopbriggs, Glasgow.

For medical, pharmaceutical and veterinary preparations (5)

ORPHENISON, 801,374, by N.V. Koninklijke Pharmaceutische Fabrieken V/H Brocades/ Steeman and Pharmacia, Amsterdam, Holland.

For radiological contrast media (5)

INTRAPAQUE, SOLUPAQUE, 801,585-86, by Damancy & Co., Ltd., Ware, Herts.

For pharmaceutical preparations and substances for human and veterinary use (5)

DECABOLIN, 801,748, by Organon Laboratories, Ltd., London, W.C.2.

For pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, material prepared for bandaging, disinfectants and antiseptics (5)

SIMERODAN, TAMBROVID, 802,653-54, by J. R. Geigy, S.A. (J. R. Geigy, A.G.), Basle, Switzerland.

For photographic and cinematographic apparatus, and parts of and fittings and lenses (9)

AGNAR, B707,069, by Agfa Camera Werk München, Munich, Germany.

PATENTS

(by permission, Controller, H.M. Stationery Office)

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," June 15

N (5-nitro-2-furyl) - alkylidene-3-amino-5-tertiary

amino-methyl-2-oxazolidones and chemotherapeutic composition containing them, Norwich

Pharmaceutical Co., 843,834.

Mycobacteriostats, Monsanto Chemicals, Ltd. 844,329.

Aromatic ethers, Soc. des. Usines Chimiques Rhone-Poulenc, 843,883.

Compositions for use in suppositories, Chemische Werke Witten, G.m.b.H. formerly Imhausen Werke, G.m.b.H. 843,886.

Morphinane derivatives and a process for the

manufacture thereof, F. Hoffman-La Roche & Co., A.G. 843,752.

Insulin preparations and process for preparing same, Organon, N.V. 844,434.

Synthesis of steroids, Olin Mathieson Chemical Corporation, 843,773.

Process for the manufacture of diphenyl ethers, Farbwerke Hoechst, A.G. vorm. Meister, Lucius & Brüning, 843,695.

Substituted azacycloheptanes, American Home Products Corporation, 843,924.

Pyrazolone derivatives, Sandoz, Ltd. 843,690.

Substituted 3,5-diketopyrazolidine, Sandoz, Ltd. 843,691.

Preparation of β -hydroxy-6-methyl-25D-spirost-5-ene or the β -acyl derivatives thereof, The British Drug Houses, Ltd. 843,664.

Biguanide salts, Imperial Chemical Industries, Ltd. 843,676.

Process for the manufacture of gibberellic acid, Imperial Chemical Industries, Ltd. 844,341.

Sulphonyl derivatives, Monsanto Canada, Ltd. 844,114.

Injectable aqueous solutions of chloramphenicol, C. F. Boehringer & Soehne, G.m.b.H. 844,431.

Cyclopentanophenanthrene compounds, Laboratoires François de Chimiotherapie, 843,901.

Derivative of isonicotinohioamide, Chimie et Atomique, 843,756.

From the "Official Journal (Patents)," June 22.

Therapeutic compositions, A. B. Kupferberg and H. O. Singher, 845,193.

Pharmaceutical composition, R. Bellon, 844,904.

Process for the manufacture of water-insoluble salts of polyvalent metals, E. Hustinx, 844,683.

Steroid compounds and their preparation, Merck & Co., Inc. 845,295, 845,116, 845,117.

Granular pharmaceutical compositions and process for preparing same, C. Pfizer & Co., Inc. 844,772.

2 - (N - substituted) - acylanino - 1, 3, 4 - thiazole-5 sulphonamides, American Cyanamid Co. 844,946.

Sulphonium compounds, Beecham Research Laboratories, Ltd. 845,021.

Process for resolution of glutamic acid, Ajinomoto Co., Inc. 844,952.

Production of risin, Aplin & Barrett, Ltd. 844,782.

Fungicidal compositions containing triacetin, Wisconsin Alumni Research Foundation, 845,029.

Water-insoluble tertiary anines, Sandoz, Ltd. 845,220.

9a-halo-16a, 17a, 21-triol-4-pregene-3, 11, 20-trione and 21-esters thereof, American Cyanamid Co. 844,790.

Devices for the artificial oxygenation of blood, Ferrosan, A.S. 844,881.

Purification of pyridoxine-yielding materials, Vitamins, Ltd. 844,883.

Production of heterocyclic compounds, May & Baker, Ltd. 845,034.

Derivatives of hexachlorotoluene, Velsicol Chemical Corporation, 845,036.

Method for increasing the water-soluble portion of animal muscle protein and obtaining muscle protein extracts, J. A. Benckiser G.m.b.H. Chemische Fabrik, 844,979.

Thiazolidine derivatives, Imperial Chemical Industries, Ltd. 845,248.

Sulphur compounds and bactericidal and fungicidal compositions, E. I. Du Pont De Nemours & Co. 844,816.

Alkyloxy- and Alkenedioxy-Benz [c] Acridine derivatives and methods for preparing the same, Parke, Davis & Co. 844,818.

Amine compounds and a process for the manufacture thereof, F. Hoffmann-La Roche & Co., A.G. 844,827.

Sterilisation process, Deutsche Gold Und Silber Scheideanstalt vorm. Roessler, 844,828.

Aliphatic dicarbamates, Farbenfabriken Bayer, A.G. 844,831.

Pesticidal organic dithiophosphates, their manufacture and products containing them, Murphy

Stabilised gibberellic acid compositions and their chemical Co., Ltd.

preparation, Imperial Chemical Industries, Ltd. 844,549.

Powder blending apparatus, H. V. Wilson, 844,668.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

DRUGS in the treatment of old people. *Brit. med. J.*, June 18.

SYNTHESIS of ascorbic acid in animal tissue. *Brit. med. J.*, June 18.

TOXICITY of vitamin K. *J. Amer. med. Ass.*, June 4.

ACTIVE and passive antitetanus immunisation. *J. Amer. med. Ass.*, June 4.

A DEVICE for continuous measurement and recording of intravascular pH. *Lancet*, June 18.

DRUG-RESISTANT staphylococci in the farmyard. *Lancet*, June 18.

CORRELATION between composition, structure, shape and function of a salivary mucoprotein. *Nature*, June 18.

PREPARATION of pure standard metallic perchlorate solutions. *Nature*, June 18.

CATALYTIC effects in the alkaline oxidation of cellulose. *Nature*, June 18.

USE of solvents containing ethyl iodide in the investigation of phosphorescence spectra of organic compounds. *Nature*, June 18.

SPECIFIC detection of glucose on paper chromatograms. *Nature*, June 18.

CHARACTERISATION of a new purine riboside isolated from *Fusarium* species. *Nature*, June 18.

A PHENYLTHIOCARBAMIDE TEST. *Nature*, June 18.

DETERMINATION of dieldrin deposits on sprayed mud surfaces. *Nature*, June 18.

ARAKAWA'S VACCINE, the use of, in the prevention of measles. *Yokohama med. Bull.*, February 1960.

STEROIDS pace search for new allergy aids. *Chem. Week*, May 21.

WHAT chemists should watch for in seeking foreign patents. *Chem. & Eng. News*, May 23.

OBSERVATIONS upon a new method of administration of NA phenobarbital. *Med. Press*, June 8.

STAPHYLOCOCCAL INFECTION in a medical ward. *Brit. med. J.*, June 25.

NEW INVENTION—a clinical thermometer. *Lancet*, June 25.

ASSUMPTIONS of health service finance. *Lancet*, June 25.

THE SOURCES of staphylococcal infection. *Med. Press*, June 22.

HUMAN SUSCEPTIBILITY to staphylococcal infection. *Med. Press*, June 22.

THE TRANSMISSION of staphylococcus aureus. *Med. Press*, June 22.

IMMUNOLOGICAL APPROACH to staphylococcal infection. *Med. Press*, June 22.

PROBLEMS in the treatment of staphylococcal infections. *Med. Press*, June 22.

THE HISTORY of sleeping sickness in the Sudan. *Proc. roy. Soc. Med.*, June 1960.

URINARY OESTROGEN METABOLITES of 19-norethisterone and its esters. *Proc. roy. Soc. Med.*, June 1960.

ZINC SULPHATE treatment of parakeratosis in cattle. *Nature*, June 25.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, July 3

LONDON CHEMISTS' GOLFING SOCIETY, West Surrey Golf Club (Godalming 278). Ladies welcomed.

Tuesday, July 5

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, at 1.30 p.m. Visit.

Wednesday, July 6

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Burroughs Wellcome & Co., Wellcome Chemical Works, Dartford, Kent, at 10.30 a.m. Visit.

Thursday, July 7

EAST METROPOLITAN AND NORTH METROPOLITAN BRANCHES, PHARMACEUTICAL SOCIETY, Royal Horticultural Society, Wisley, Surrey. Visit.

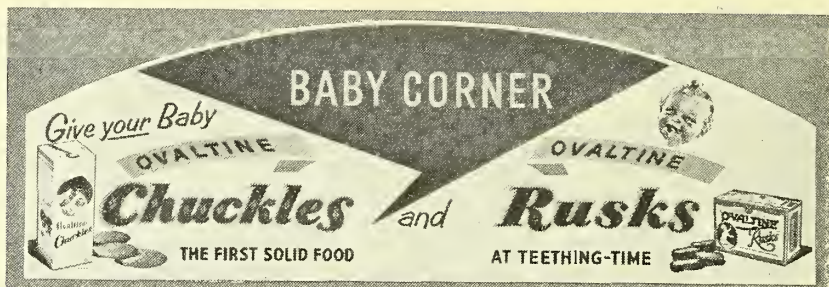
TELEVISION

Figures in the columns represent number of appearances of the product during the week.

July 10-16	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
Alka-Seltzer	..	2	2	2	3	3	3	2	2
Anadin	4	3	4	—	6	7	8	—
André Philippe bubble bath	..	—	1	—	—	—	—	—	—
Andrexx	3	—	—	—	—	—	—	—
Askit	—	—	12	—	—	—	—	7
Aspro	9	4	4	5	14	4	4	6
Beccham's pills	..	3	2	2	—	—	1	2	1
.. powders	..	2	3	3	3	4	4	3	2
Biladin	—	—	—	—	—	—	5	—
Bisodol	—	—	—	—	—	2	—	3
Bristow's lanolin shampoo	..	1	2	2	—	—	2	—	—
Coldrex	1	6	5	2	—	3	1	2
Coollan	—	—	4	—	—	—	—	—
Cuticura	2	2	—	—	—	—	—	—
Delsey	—	2	3	—	—	—	—	4
Dextrosol tablets	..	3	3	—	—	—	3	—	—
Dispel	—	—	3	—	—	—	—	—
Dylon wash-creme	..	—	1	—	—	—	—	—	—
Elliman foot cream	..	—	2	—	—	—	—	—	—
Eno's Fruit Salt	..	4	2	2	2	2	3	—	2
Euthymol tooth-paste	..	1	—	—	1	—	—	—	—
Flit aerosols	..	5	5	6	4	5	4	5	4
Fynnon salt	1	3	2	2	2	2	3	2
Germolene	1	4	1	3	—	2	3	3
Halex	2	3	3	2	2	4	3	2
Ingram shaving cream	..	2	3	3	3	3	4	3	—
Kleenex	2	2	2	1	1	2	2	2
Klik	—	4	—	—	4	—	—	—
Kodak	1	3	3	5	4	3	2	3
Kwells	3	3	3	3	1	4	2	—
Loxenc hair cream	..	1	2	3	2	2	2	3	2
.. shampoo	..	1	2	2	2	4	2	4	3
Macleans tooth-paste	..	2	2	2	3	4	2	3	4
Milk of Magnesia	..	1	—	—	—	—	—	—	—
Mix-A-Shake	—	3	—	—	—	—	—	—
Mum rolette	..	3	2	3	3	3	2	2	4
Pepsodent tooth-paste	..	—	—	3	—	—	—	—	—
Phyllosan	1	1	1	—	—	—	—	—
Prom	1	4	3	2	2	2	3	2
Radox	2	—	—	—	—	—	—	—
Rennies	—	1	—	2	1	2	1	2
Rinstead pastilles	..	1	—	—	1	—	—	1	1
Rivella	3	—	—	—	—	—	—	—
Saxin	3	—	—	—	—	—	4	—
ScotTowels	3	—	—	—	—	—	—	—
Sebbix shampoo	..	3	2	2	2	2	2	2	2
Sek	1	2	1	2	—	1	1	1
Setlers	3	2	2	—	2	2	1	—
Sparkleen	—	—	—	—	—	2	—	—
Spree fruit squash	..	6	6	6	6	6	6	6	6
Winspray products	..	—	3	—	—	—	3	—	—
Yeast-vite	2	2	1	1	3	1	1	4
Zoflora	2	—	—	1	—	—	—	—



COMBINED DISPLAY: Kimberly-Clark, Ltd., Larkfield, Kent, have produced the display unit shown here. The unit features the "chubby" Kleenex pack and a special offer.



SIGN AND SHOWCARD: Designed for use in connection with the fast-growing introduction of "baby corners," the showcard illustrated (width 3 ft.), which has been produced by A. Wander, Ltd., King's Langley, Herts, serves to hang or stand above the shelves devoted to baby foods.

PRINT AND PUBLICITY

PUBLICATIONS

Booklets and Leaflets

AGFA, LTD., 27 Regent Street, London, S.W.1: "Agfa Photo Guide to Europe," Pp. 32. "Agfacolor prints, transparencies and cine films," Pp. 16.

BORAX CONSOLIDATED, LTD., Borax House, Carlisle Place, London, S.W.1: "20 Mule Team boron products and their applications," Pp. 16.

KODAK, LTD., Kodak House, Kingsway, London, W.C.2: "Kodak paper—for every photographic purpose," Pp. 22. "Kodak C.T. paper" (folder), "Kodatracer" (folder).

MURGATROYD'S SALT & CHEMICAL CO., LTD., Elworth, Sandbach, Ches. Product Specifications.

N.V. CHEMISCHE FABRIEK NAARDEN, Postbus 2, Naarden-Bussum, Holland: Sodium benzoate and benzoic acid (folder).

Catalogues

AGFA, LTD., 27 Regent Street, London, S.W.1: Cameras, accessories, equipment, films, developers, papers and recording tapes.

Periodicals

BRUCE STARKE & Co., LTD., 5 Fenchurch Street, London, E.C.3: *Dragoco Report* No. 5, 1960, Pp. 22.

CHILEAN IODINE EDUCATIONAL BUREAU, Chile House, Ropemaker Street, London, E.C.2: *Current Iodine Literature*, Vol. 7, No. 7, 1960, Pp. 18.

MOND NICKEL CO., LTD., Thames House, Millbank, London, S.W.1: *Inco-Mond Magazine*, No. 14, Pp. 32.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: *Roche Courier*, No. 4, 1960, Pp. 4.

Price Lists

CONTINENTAL LABORATORIES, LTD., 101 Great Russell Street, London, W.C.1: May 1, 1960.

Showcards

CUXSON, GERRARD & Co., LTD., Fountain Lane, Oldbury, Birmingham: Aidex showcard and crown.

PRESS ADVERTISING

BOWATER-SCOTT, LTD., Bowater House, London, S.W.1: Andrexx. In *Woman, Woman's Own*, and *Woman's Realm*.

COUNTY LABORATORIES, LTD., Great West Road, Brentford, Middlesex: Macleans tooth-paste. In *Daily Express*, *Daily Mirror*, *The Times* and *Sunday Pictorial*.

CUXSON, GERRARD & Co., LTD., Fountain Lane, Oldbury, Birmingham: Aidex. In *News of the World*, *The People*, *Woman*, *Readers Digest* and *Everywoman* during July and August.

ESSO PETROLEUM CO., LTD., Speciality Dept., 125 Albert Street, London, N.W.1: Flit aerosols. In national newspapers, television magazines and women's weekly and monthly magazines.

HOWARD LLOYD & Co., LTD., 11 Waterloo Place, London, S.W.1: Lloyd's adrenaline cream. In *Daily Express*.

C. & D. RETAIL AND DISPENSING PRICE LIST

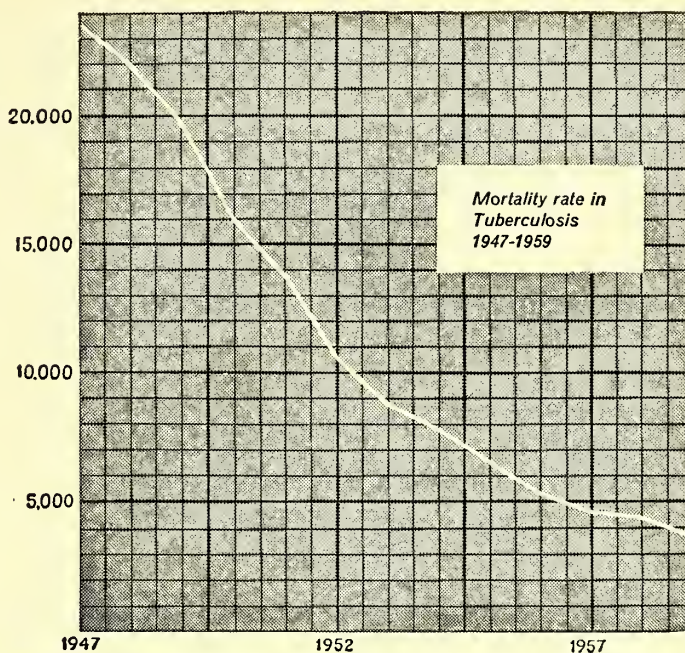
The drug index for May was 209'6

Cost		Item	16 oz.	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.	s. d.
111	500 gm.	Acacia pulv. opt. ...	—	3 7	1 1	0 2
129	100 gm.	Bismuth. subgallas, B.P. '53	—	—	5 6	0 9
345	100 mls	Ext. ipecac. liq. ...	—	—	—	2 0
102	500 mls	Ext. sennæ liq., B.P. '53	—	3 3	1 0	0 1½
89	500 gm.	Ferri et ammon. citras	—	2 10	0 10	0 1½
42	500 gm.	Naphthalenum coml. flake	4 9	1 4	0 5	—
69	500 gm.	Nux vomica præp. S.I. (5)	—	2 3	0 8	—
123	25 gm.	Ol. bergamot., B.P.C. '49	—	—	—	2 2
84	500 mls	Ol. cadinum	—	—	0 10	0 1½
42	500 gm.	Ol. cois, B.P.C. '49	—	1 4	0 5	—
144	2 litres	Oxymel scillæ, B.P.C.	—	1 2	0 4	0 1
52	100 gm.	Piper. alb. pulv.	—	—	2 3	0 4
47	100 gm.	Piper. nigrum. pulv.	—	—	2 0	0 3½
72	500 gm.	Potassa sulphurata	—	2 4	0 8½	0 1
78	250 gm.	Pulv. lobeliæ co., B.P.C. '49	—	5 0	1 6	0 2½
104	500 gm.	Pulv. stramon. co., B.P.C. '49	—	3 4	1 0	0 1½
150	500 mls	Tinct. lobeliæ æther., B.P.C.	—	4 10	1 5	0 2½
123	500 mls	Tinct. lobeliæ simp.	—	3 11	1 2	0 2
189	100 gm.	Tragacanthæ pulv.	—	—	8 0	1 2

Cost		Capsules, retail (in containers)	25	100
d.	per		s. d.	s. d.
970	500	Ergot. præp. gr. 2½	S.I. 7 8	29 2

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST *Poisons Guide*.

The
WANDER
 comprehensive
 range in



TUBERCULOTHERAPY

The House of Wander specializes in providing a wide range of tuberculostatics for hospital and domiciliary requirements throughout the Commonwealth.

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Calcium Benzamidosalicylate	'WANDER' brand Calcium B-PAS	CACHETS POWDERS BULK POWDER	
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Calcium Benzamidosalicylate with Isoniazid	'B-PASINAH' brand	CACHETS POWDERS	

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T.72

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the after-shave tanning lotion 21/6

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the tanning cream with sun-screening
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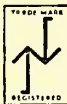
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- ★ Caps : Black, Red or White Plastic or White Enamelled Tinplate.
- ★ Production Clean in Sealed Cartons.
- ★ Prompt Despatch from Stock.
- ★ Available in the following sizes—
1½dr 3dr ½ ¾ 1 1½ 1¾ 2 3 3½ oz.

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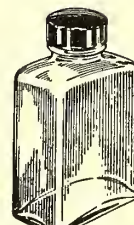
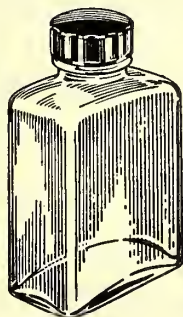
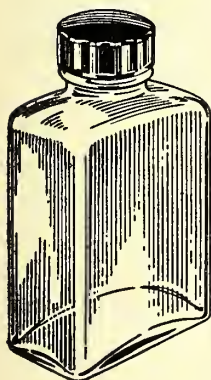
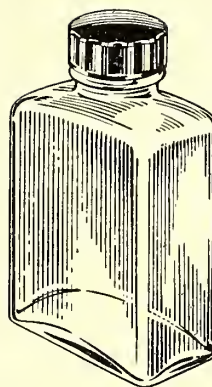
Suggested Packs—

- ½-oz. (No. 2)— 25 Aspirin.
- 1-oz. (No. 4)—50 Aspirin or 25 Codeine.
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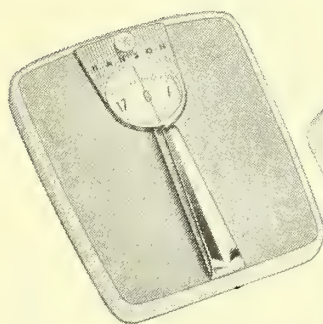
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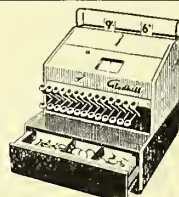
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**RICHARD DANIEL
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Your customers want QUICKIES...

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Prices:

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4/- each retail
24/- per dozen trade

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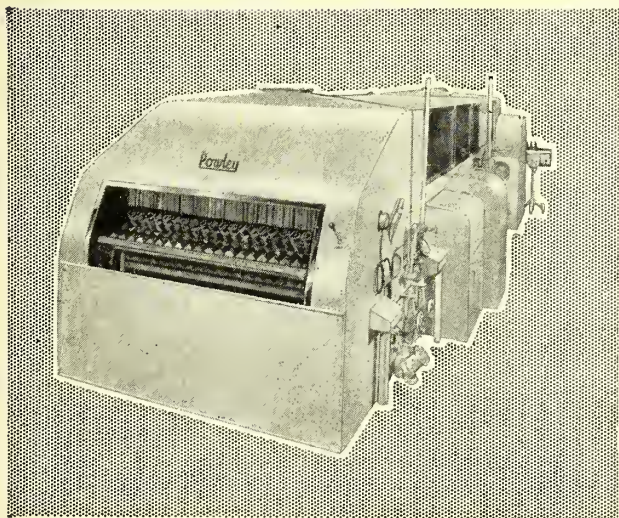
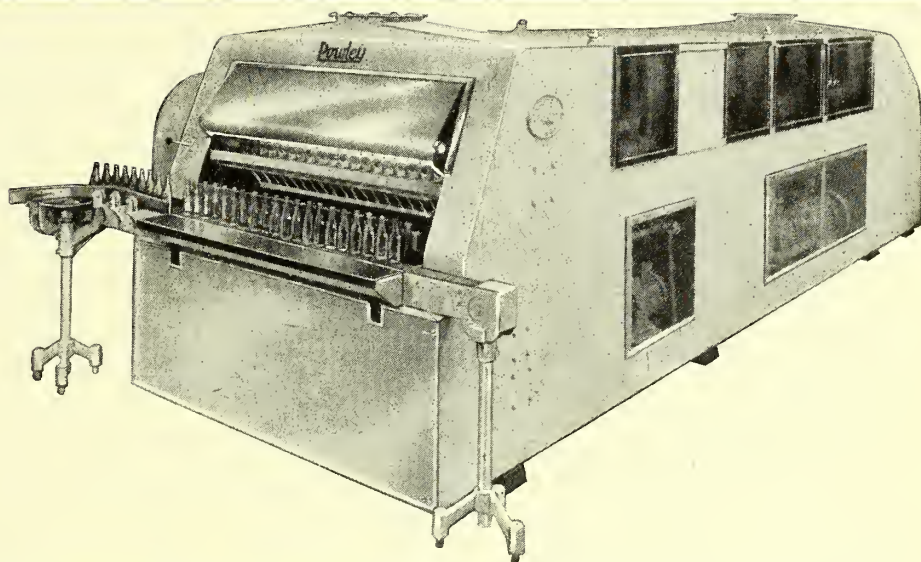
1/9d. each retail
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QUICKIES are manufactured by Associated Products (England) Ltd.

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IS ROCKETING UP IN POPULARITY



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**Quality
Tablets
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**SPECIALISED
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**CUSTOMER'S
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COATED**

**LARGE QUANTITIES
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EXTRA-TAIL *for
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**COMPLETE
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AND OTHER
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**TRADE
TERMS!**

**33 1/3%
CARR. PAID IN
PACKS OF 12
FREE SHOWCARDS
FREE COUNTER
LEAFLETS**

At last, here is the perfect product for all who love their horses and have their well-being at heart. In the easy-to-apply aerosol pack, Extra-Tail is the complete answer to the sad sight of continuous tail-

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of Royal Jelly preparations
but there is only one*

APISÉRUM

*Apisérum has been granted
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Health Visa . . . a guarantee
of purity and safety . . .*

. . . insist on the name

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IN BULK..

StaffordAllen's ointments and creams are exceptionally fine and smooth. Solid ingredients are added in fine subdivision and very fine milling of the ointment mix is achieved through micrometer adjusted Colloid Mills.

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Crem. Calam. Co., B.P.C.	Ung. Acid. Benz. Co., B.P.C.	Ung. Hydrarg. Fort., B.P.C.
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Crem. Proflav., B.P.C.	Ung. Hydrarg. Co., B.P.C.	Ung. Zinc. et Ol. Ricin., B.P.
Crem. Zinc., B.P.		

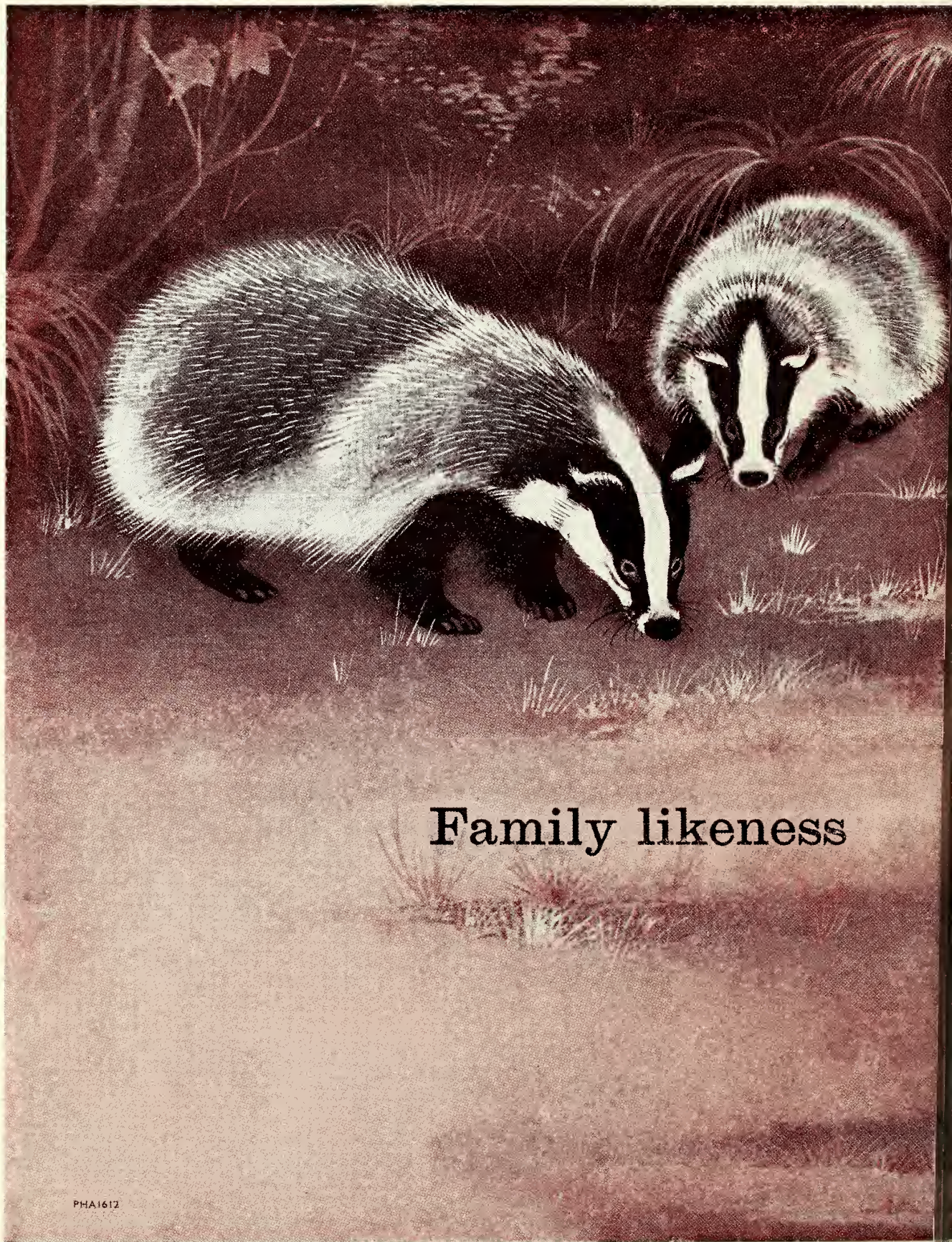
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StaffordAllen's

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In Blue, Red or Green metallicchrome finish. Special non-drip pourer. New hygienic stopper. Modern cup design. Shock-proof base-buffer etc. etc. 8oz. 16oz. and 36 oz. models.



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IPSOPHONE NIGHT SERVICE NOW AVAILABLE AT LLANDUDNO

IT'S SANGERS AND ASSOCIATES FOR DAY AND NIGHT SERVICE!

NEW COLOUR PACKS

DESIGNED TO INCREASE YOUR SALES

Here's a pack to catch the eye! With delicate pastel colours and an outstanding design using the Silcot motif, it immediately establishes the supreme quality of Silcot santowels. A tear-off price tab is attached for customer convenience. The new Silcot merchandiser display has been specially designed with the discreet customer appeal of these packs in mind. You can be sure that the new Silcot pack will not only increase your sales but will also add to the prestige of your pharmacy.

COLOUR CODED FOR SIZE

SIZE 0
ORANGE GOLD

SIZE 1
LEAF GREEN

SIZE 2
DUSKY PINK

SIZE 3
SILVER GREY

SIZE 4 (maternity)
SPRING LILAC

UNIQUE DISCOUNT PLAN

Your **total annual** purchases qualify for these extra discounts which are allowed on Silcot santowels.

£30 AND OVER IN TWELVE MONTHS 3¼% £60 AND OVER IN TWELVE MONTHS 5%

£120 AND OVER IN TWELVE MONTHS 7½%

(Silsan and Vensilla santowels are also included in this scheme)

SPECIAL DISPLAY BONUS

By displaying this Silcot merchandiser you receive a generous bonus. Ask your representative for full details.



**PUT SILCOT
ON DISPLAY—
THE PACKS &
NATIONAL
ADVERTISING
WILL DO THE REST**



FOR

Silcot



Silcot
SANTOWELS

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Women everywhere will welcome
Charles Bedeman's original

Lemon Cream Shampoo

Famous throughout the Hairdressing Profession
NOW AVAILABLE THROUGH CHEMISTS

Already a favourite with customers in hairdressing salons all over Britain, Charles Bedeman's *Lemon Cream Shampoo* is now to be made available through chemists after requests by the public. It is another product from the makers of the phenomenally-successful *Deep Shampoo Treatment*.

C.B. Lemon Cream—a gentle shampoo-conditioner—is suitable for all types of hair. It is particularly good for hair in poor condition and recommended even for children's fine hair.

Advertising starts on July 16th to the
ten million readers of **WOMAN**

BONUS OFFER
special introductory offer July 1st. - 30th.
EXTRA 3 SACHETS
with each order of 3 dozen.

Trade price: 3 doz. sachets in pack at 21/9 plus P.T.

Retail: 1/- per sachet.

Large economy bulk family pack containing the equivalent of 20 sachets and giving a saving of 5/-
Retail: 14/7 Trade price: 8/4 plus P.T.

There's 30% clear profit for you on C.B. Lemon Cream Shampoo—and that's from a shampoo that's sure to **SELL! SELL! SELL!**

MAKE SURE OF YOUR BONUS!

order now from your wholesaler or direct from:



CHARLES BEDEMAN LTD.

180 QUEEN'S ROAD, LONDON, S.E.15

Telephone: New Cross 5755/5359/4836

NEW PRODUCT

ANUSOL OINTMENT with Hydrocortisone

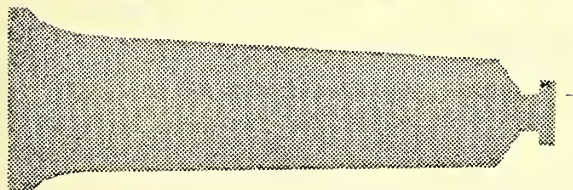
**for the treatment of
ano-rectal disorders where
inflammation is a problem**

Following the successful introduction of Anusol-HC Suppositories, William R. Warner are now presenting Anusol-HC Ointment containing hydrocortisone.

This new ointment is being heavily promoted in the medical press and in mailings to doctors.

Anusol-HC Ointment incorporates 0.25% hydrocortisone acetate in the established ointment formula.

Anusol-HC ointment



Anusol-HC Ointment
now available in 10 G. tubes.
Trade price 90/- per dozen.



WILLIAM R. WARNER & CO. LTD., EASTLEIGH · HAMPSHIRE

ANU449

A day to remember.



..starts the
DOMESTOS
summer campaign

...BIGGER THAN EVER BEFORE!

For Disinfecting Sinks and Drains

... more women use Domestos than any other product!

And there are over 100 million bottles of Domestos in use all over the world. It is the most popular disinfectant in the world. It kills all germs and is safe for use on all surfaces. It is the only disinfectant that is safe for use on all surfaces.

Domestos puts infection out of reach!

Domestos is the only disinfectant that is safe for use on all surfaces. It kills all germs and is safe for use on all surfaces. It is the only disinfectant that is safe for use on all surfaces.

Domestos Toilet Cleanser Kills all germs overnight!

Domestos is the only disinfectant that is safe for use on all surfaces. It kills all germs and is safe for use on all surfaces. It is the only disinfectant that is safe for use on all surfaces.

The only type of Lavatory Cleanser that kills all germs overnight!

Domestos is the only disinfectant that is safe for use on all surfaces. It kills all germs and is safe for use on all surfaces. It is the only disinfectant that is safe for use on all surfaces.

Make sure of your stock now

Domestos already outsells every other lavatory cleanser and the summer campaign will push your sales even higher.

Order your extra stocks now . . . and clinch those increasing sales by displaying the compelling point-of-sale material available from your Domestos representative.

Remember! the Domestos Campaign includes:

- * Frequent 30-second spots on all TV stations and major cinemas
- * Heavily repeated advertising in over 180 local newspapers and national magazines.

Make a date with the Domestos summer campaign beginning JULY 30th.

DOMESTOS LIMITED

COLLEGE WORKS, ALBION ROW, NEWCASTLE UPON TYNE, 6.
DT48

THE NAME THE QUALITY THE PACK THAT SELLS

Dr. Scholl's **FOOT POWDER**

in the **NEW Plastic "Puff" Pack**



**Sunday Press
SPECIAL DRIVE!**
*News of the World
People, Sunday Express*
EXTRA Campaign
JUNE-JULY
**Another 138,000,000
Circulation**

**BACKED BY Dr. Scholl's GREAT PUBLICITY CAMPAIGN
OVER 2000 MILLION ADVERTISEMENTS for FOOT COMFORT in 1960**

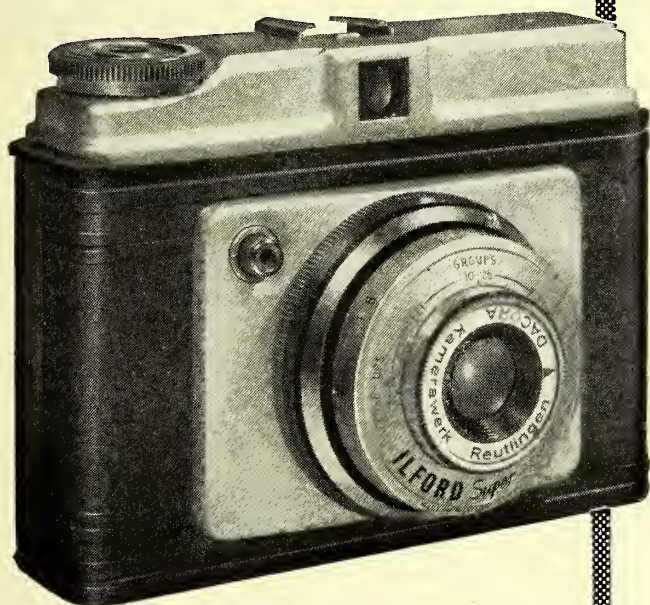
The name that means Foot Comfort. *Dr. Scholl's* New Foot Powder in the NEW Plastic Puff Pack creates new business you cannot afford to miss. *Dr. Scholl's* will sell all the year round. You cannot *over* stock on *Dr. Scholl's*. Make sure of the lucrative *Extra* Summer trade. Order now. Keep it on the counter. 1s. 2d. Profit per sale for you!

TRADE 24/- DOZ. (P.T. 6/-) RETAIL 3/8 PROFIT 1/2
PER SALE

ORDER TODAY

THE SCHOLL MFG. CO. LTD., 182-204 ST. JOHN STREET, LONDON, E.C.1. CLERKENWELL 3636

For every age and every stage of ability



You can sell an ILFORD camera to every member of a family—now that the Super Sporti has been introduced, and the Sportsman range has been enlarged. Each one is an attractive instrument, and unbeatable value at its price. That is why you can safely recommend an ILFORD camera to any one of your customers—of whatever experience in photography.

ILFORD

ILFORD SPORTI Roll Film Camera

Takes 12 exposures $2\frac{1}{4}$ " square on 120 roll film. Simple exposure settings, zoned focusing, flash-synchronised shutter, and accessory shoe. Retail price £3.17.7

ILFORD SUPER SPORTI

As above, but with three exposure settings and automatic lock to prevent double exposure. "I" and "B" shutter settings. Retail price £5.12.6

Sporti Ever-ready case £1.1.10

De luxe case £1.16.0

ILFORD SPORTSMAN VARIO 35mm Camera

f/2.8 coated lens and three-speed Vario flash-synchronised shutter. Rapid lever film-wind interlocked with shutter setting mechanism. Focuses down to $3\frac{1}{3}$ feet. Direct-vision viewfinder with luminous guide-lines.

Retail price £11.19.6

ILFORD SPORTSMAN PRONTO

Other details as Sportsman Vario, but with four-speed Pronto shutter and delayed-action release.

Retail price £15.15.0

ILFORD SPORTSMAN PRONTOR

f/2.8 lens and other details are standard, but this version of the Sportsman has the nine-speed Prontor SVS shutter synchronised XM, with light-value scale and delayed-action shutter-release.

Retail price £18.17.6

ILFORD SPORTSMAN RANGEFINDER

Same shutter and body as the Sportsman Pronto, but with built-in coupled rangefinder to take all the guess-work out of focusing.

Retail price £19.19.11

Sportsman Ever-ready case £2.3.7

De luxe case £3.5.1



NO WONDER THEY CALL IT THE 'LIGHTNING' SHAMPOO!



NEW People will clamour for VITESSO — the new idea for a refreshing, 2-minute, no water shampoo — anywhere, any time. Sprinkle over hair — rub it in — towel it off! Sell VITESSO for cold weather shampooing, holidays, unexpected dates, hospital patients.

No sooner seen than sold! A shilling in two seconds!

26,000,000 National advertising will reach 26,000,000 readers in the 'DAILY EXPRESS' and 'DAILY MIRROR' — 26,000,000 potential customers! Men and women will want VITESSO — so simple, so quick, so effective.

INDIVIDUALLY CARDED

Each sparkling sachet of blue VITESSO individually carded with full instructions — designed with your counter in mind.

PRICE

Trade price of VITESSO — 6/10 per dozen (plus 1/9 P.T.), packed in three or six dozens. 3/5 profit on every dozen sold! . . . 3/5 profit in 24 seconds! Retail price 1/-. Minimum order—3 dozen



FROM YOUR USUAL WHOLESALER OR DIRECT FROM

DENDRON DISTRIBUTORS LTD · WATFORD · HERTS

The BEST for Baby

is the BEST for the Retailer...stock

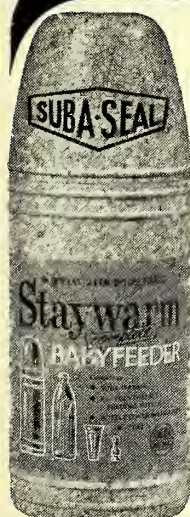


BABY FEEDING PRODUCTS

"SUBA-SEAL" is best for you, because you score on turnover value and price . . . Best for your customers because every item has been designed to ethical standards and is manufactured in our own works under skilled supervision.

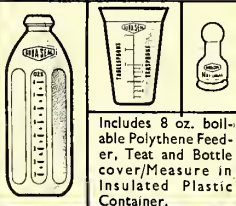


BUILD UP GOODWILL WITH SUBA-SEAL NATURAL



SUBA-SEAL
Staywarm
COMPLETE
BABYFEEDER

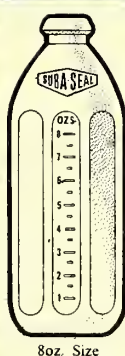
When filled, keeps feed warm for four hours. Ideal for the night feed and long journeys.



Includes 8 oz. boilable Polythene Feeder, Teat and Bottle cover/Measure in Insulated Plastic Container.

A PROVED SUCCESS AND A POPULAR SELLER AT ONLY—

7'6



8oz. Size



4oz. Size

SUBA-SEAL NATURAL
BOILABLE POLYTHENE FEEDER
You CAN Bottl it . . . but You CAN'T Break it!
1'11 1'8
(8 oz.) (4 oz.)

SUBA-SEAL NATURAL
SILICONE TEAT
CAN BE BOILED FOR STERILIZING
3'6 each



SUBA-SEAL NATURAL
HEAT MOULDED & CUSHIONED TEAT
7'2 each



SUBA-SEAL NATURAL
ANTI-COLIC PURE LATEX TEAT
7'2 each



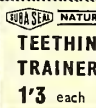
MINI-FEEDER 1'9
Complete with teat and Cleansing Brush each



COVER MEASURE 1'1½ each

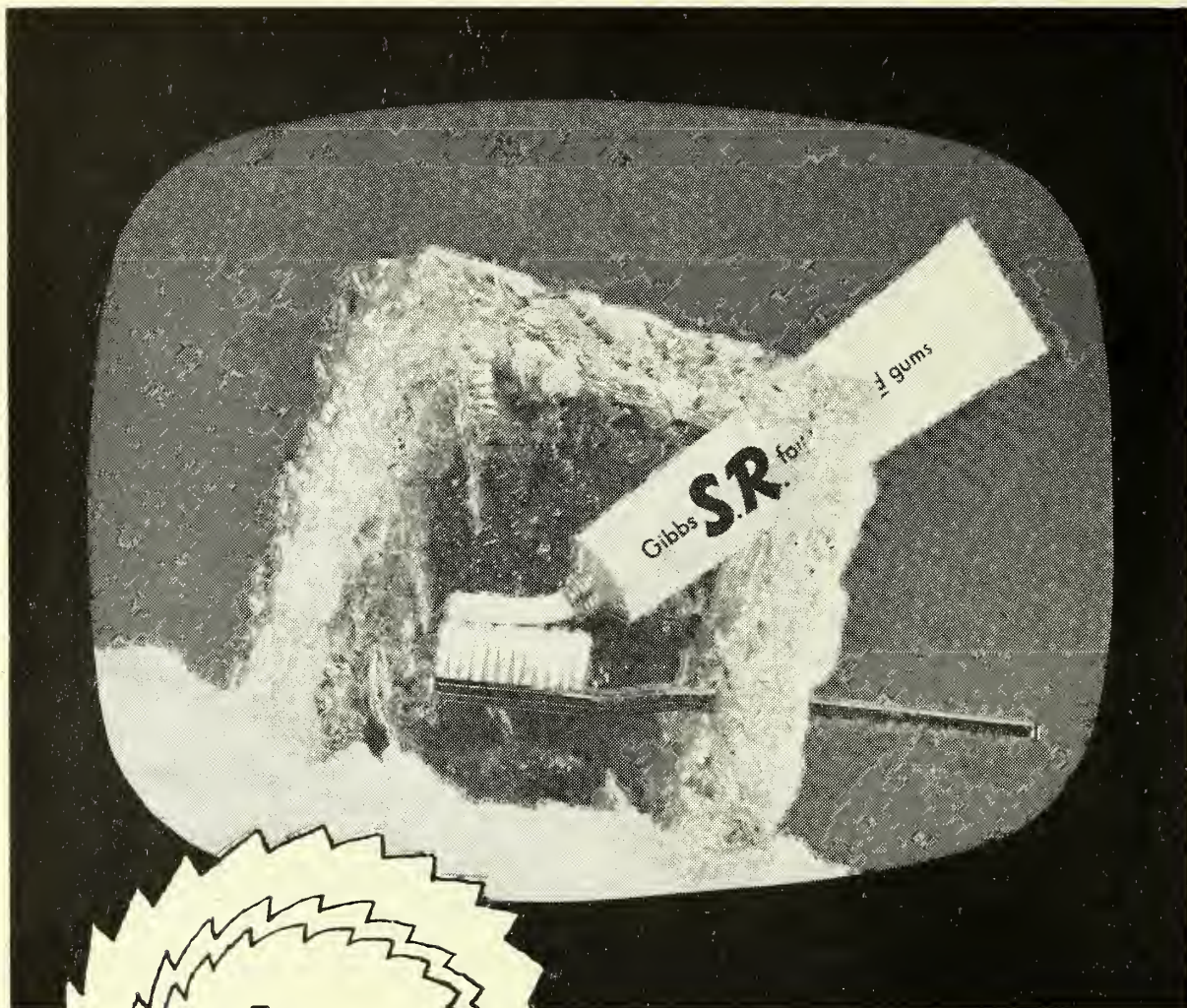


SOOTHER 7'2 each



TEETHING TRAINER 1'3 each

SELL SUBA-SEAL FOR SATISFACTION



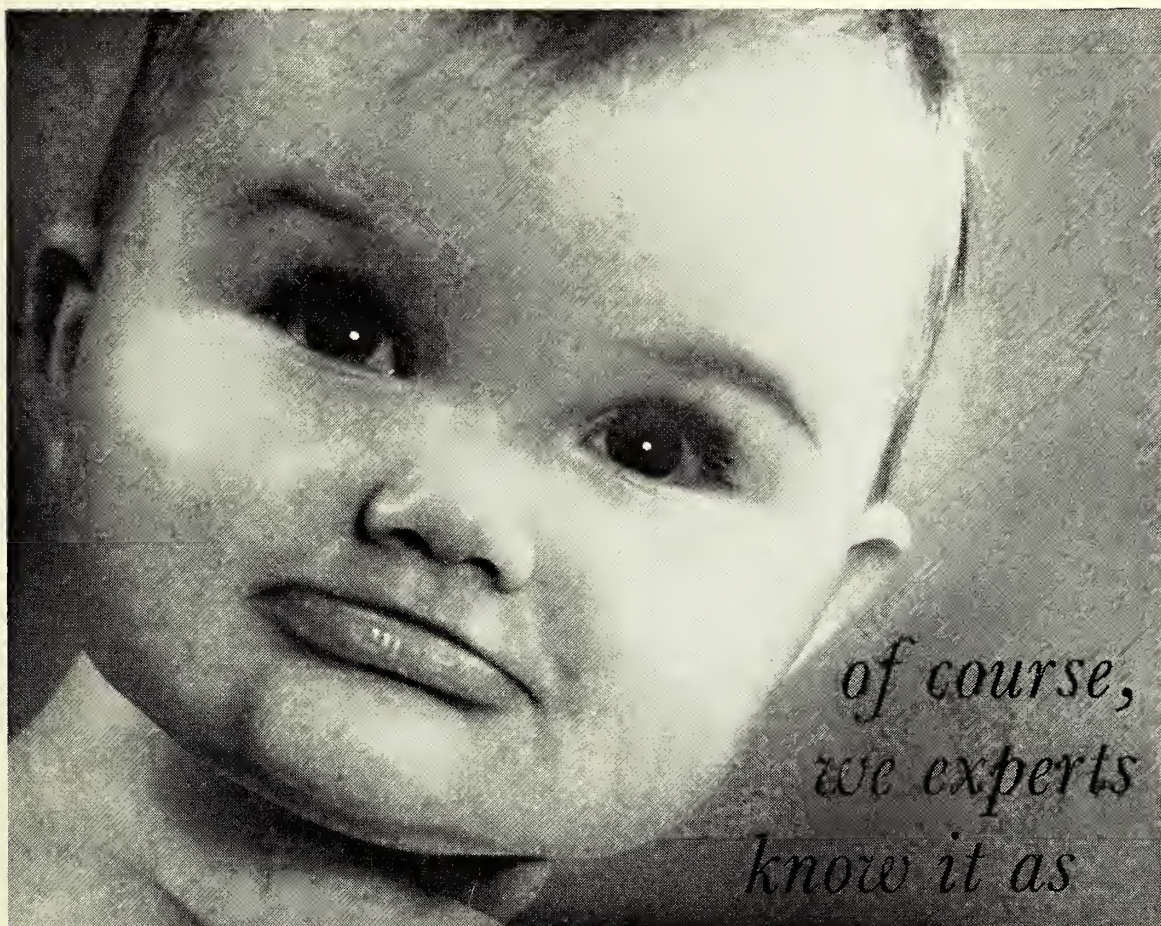
1ST

S.R. TV commercials win first prize in Venice Film Festival!

Competing with productions from all over the world, this year's dynamic Gibbs SR commercials have won the top award for a live-action series in the International Advertising Film Festival at Venice!

This was the only top live-action award won by a British company for television.

Consistently outstanding advertising like this is simply part of the Gibbs operation designed to help you sell.



*of course,
we experts
know it as*

demethylchlortetracycline...

... but for doctors who want to prescribe the most active tetracycline so far introduced into medicine, it's simpler to write LEDERMYCIN.

LEDERMYCIN demethylchlortetracycline surpasses other tetracyclines in so many ways—lower dosage, greater stability, higher therapeutic blood levels, fewer side effects. LEDERMYCIN maintains effective antibacterial action for as long as 48 hours after stopping dosage—giving added protection for the patient. These are virtues proved in clinical trials and supported by continually increasing prescription in both hospital and general practice.

Ledermycin[†]

DEMETHYLCHLORTETRACYCLINE

† TRADEMARK

PRESENTATION

Dry-filled two-tone capsules of 150 mg. in bottles of 16, 100 and 1,000 capsules.



LEDERLE LABORATORIES

a division of

CYANAMID OF GREAT BRITAIN LTD. London W.C.2

FRESH
OFF
THE
WEST
COAST
OF
AMERICA



TOILETRIES FOR MEN

--ALL AT 8/6 RETAIL

FRESH
ONTO
YOUR
LIST
OF
TOP
PROFIT
MAKERS

Buy **STAG** on these "get acquainted" bonus terms

STRAIGHT
35%
PROFIT

PLUS

6

FREE

STAG

PRODUCTS
ON ANY
OF THESE
4 PARCELS

PLUS

10%

DISCOUNT

ON ALL
ORDERS OF £1
AND OVER

PARCEL A

12 after-shave lotion
12 pre-shave lotion
12 deodorant stick
12 after-shower talc

PARCEL B

18 after-shave lotion
18 pre-shave lotion
6 deodorant stick
6 after-shower talc

PARCEL C

18 after-shave lotion
12 pre-shave lotion
12 deodorant stick
6 after-shower talc

PARCEL D

24 after-shave lotion
6 pre-shave lotion
6 deodorant stick
12 after-shower talc

STAG



WATCH FOR
NEWS OF
PEAK-SEASON
STAG
ADVERTISING

ORDER NOW AND GET YOUR FULL 48% PROFIT

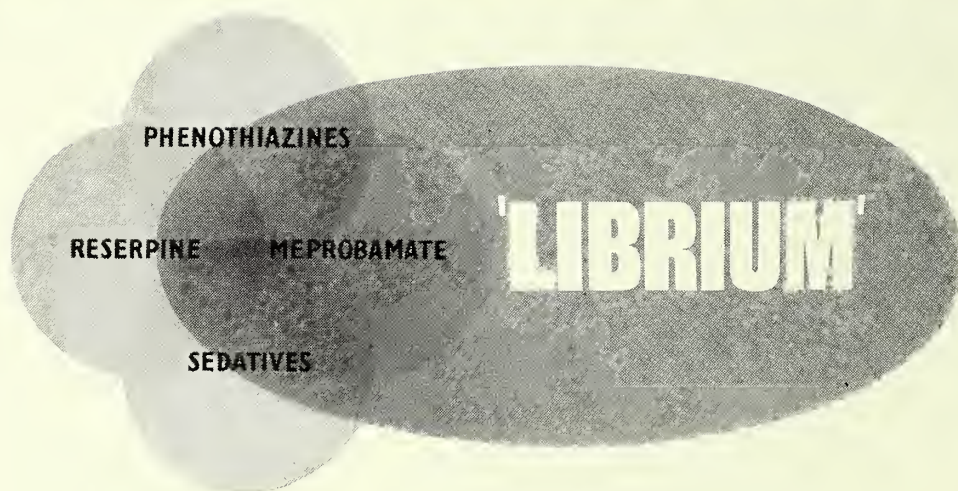
Lorie of Los Angeles

A Division of Rexall, Loughborough, Leicestershire

NEW 'LIBRIUM'

TRADE MARK

BRAND



The successor to the tranquillizers

ROCHE

Literature & samples available from
ROCHE PRODUCTS LIMITED,
15 MANCHESTER SQUARE, LONDON, W.1



Competitive quotations on request

for Adrenaline, Atropine, Benzamine Salts,
Bismuth Salts, Carbachol, Emetine and
E.B.I., Ergometrine, Hyoscine, Hyoscyamine,
Ouabain, Physostigmine, Pilocarpine,
Strophanthin-K, Sulphaguanidine, and many
other alkaloids and glycosides

B.W. & CO.

Fine Chemicals



BURROUGHS WELLCOME & CO.

(The Wellcome Foundation Ltd.)

The Wellcome Building, Euston Road, London, N.W.1

Insist on
"SureShield" products

Be Wise-Iodise / Gentle & Safe

A Standard
of QualityEstablished
1869

*We specialise
in Chemists
"Own Name"
packs and can
offer a prompt
and efficient
service.*

*A very
comprehensive
range of official
Lozenges
and
Pastilles
in stock*

Enquire for price list and direct buying terms to:—

THOS. GUEST & CO. LTD., CARRUTHERS STREET, MANCHESTER 4

Fast aid for the Family

ST. JAMES' BALM is the proven remedy for common skin troubles—and for some quite uncommon ones too! Because it contains the broth filtrates of the microbes causing most skin infections, treatment is successful in an exceptional number of cases. ST. JAMES' BALM is therefore the ideal general-purpose ointment for family use. On merit alone, ST. JAMES' BALM is in steadily increasing demand. *You may stock and recommend it with absolute confidence.*

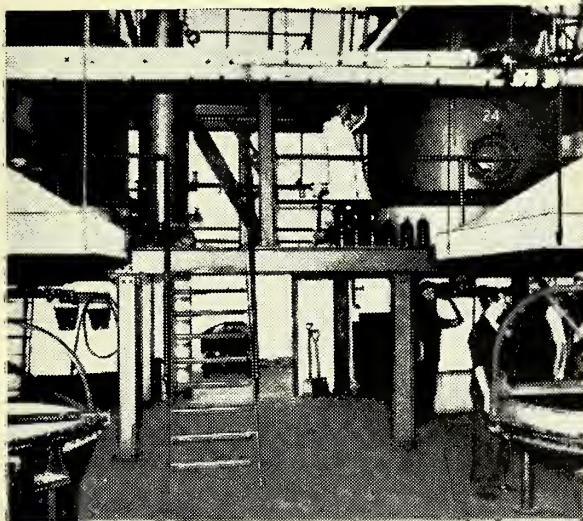
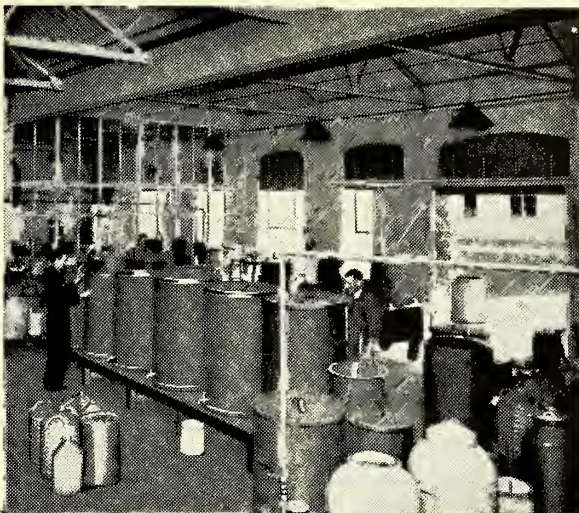
ST. JAMES' BALM

MEDICO-BIOLOGICAL LABORATORIES LTD.
LONDON, S.E.25

Sole Distributors for the U.K.:
ARCHER LABORATORIES LTD., CARGREEN ROAD, LONDON, S.E.25



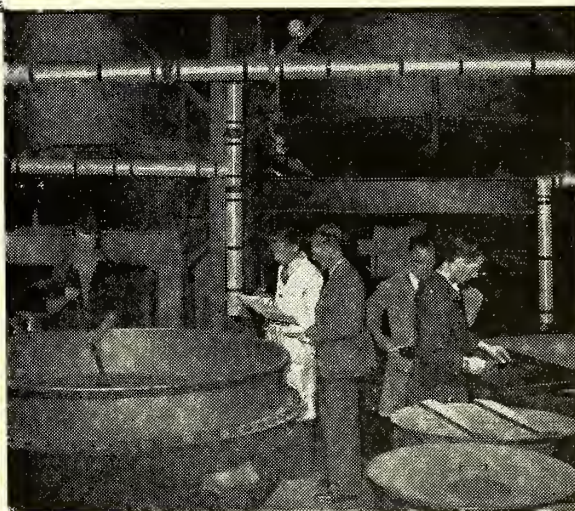
Your own products processed—the Ransom way



The benefits brought to you by the Ransom standards of processing are good for both your business and professional reputation. Send them your raw materials and the meticulous Ransom standards of quality and uniformity, born of over a century's experience, become a feature of your own processed materials. The Ransom service to the pharmaceutical industry also embraces the processing of proprietaries to your own formulas. This service is complete and carried out in the strictest confidence—from raw material to final packaging.

Here is your opportunity to share the enviable Ransom reputation—famous throughout the pharmaceutical industry. The House of Ransom serves the wholesale and manufacturing trades only and is an entirely self-contained family business—it is not connected with any other firm in the industry.

A line on your letter heading or trade card will be sufficient to bring you full details of Ransom's Trade Processing Service.



WILLIAM RANSOM & SON LTD.

HITCHIN • HERTFORDSHIRE • ENGLAND


BOTANICALS
CHEMICALS
GUMS

★

ESSENTIAL OILS
SPICES
WAXES

NEW YORK

CASCARA
NUX VOMICA
SENEGA
STYRAX
STROPHANTHUS

HAMBURG

★
JOHN KELLYS (LONDON) LTD.

24 OLD BROAD STREET, E.C.2.

Telephone: LONDON Wall 6585 (4 lines)
 Telegrams: "Ergotine, Stock, London"

Now hayfever's here

PROVED REMEDY. Right now unfortunate hayfever victims look to you for relief. Put your experience to work. Recommend Besorbon, the proved fast acting medicinal snuff.

EACH BESORBON PACK is completely hygienic and fits neatly into your customers' pockets. Comprehensive directions are enclosed inside.

INCREASE YOUR SALES. Stock Besorbon by the dozen. Obtain the attractive counter unit free. By displaying Besorbon prominently now you'll gain more sales—more profit.

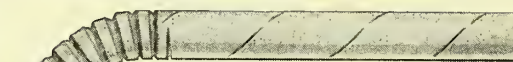
It's big selling for

BESORBON
REGD. TRADE MARK

MEDICINAL SNUFF

KEMSALES LTD., EASTCHEAP, LONDON, E.C.3

A NEW DRINKING STRAW THAT



BENDS TO ANY ANGLE!

FLEX-STRAW

IDEAL FOR PATIENTS AND CHILDREN

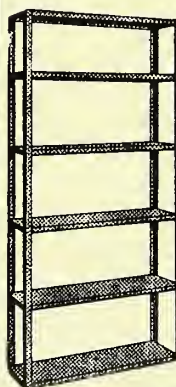
... thanks to an exclusive patented corrugated section. A special high-temperature resistant wax treatment prevents disintegration in soups, broths and other hot liquids. FLEX-STRAW combines flexibility, comfort, safety and economy. Hospital and sanatoria tests confirm that where labour is a problem Flex-Straws are more economical than conventional, breakable drinking tubes which need sterilization after each use. Flex-Straw safeguards against 'droplet-infection'. Available in handy packs of 25 for the Retail Trade.

Write for Samples and full details. If you have difficulty in obtaining supplies, write direct, with name of your wholesaler.

HYGIENIC DRINKING STRAWS CO. LTD

College Road · Fishponds · Bristol
 Bristol 653268 & 654205 Tel: Drinkrite, Fishponds

STEEL SHELVING



DELIVERED FREE TO
ENGLAND, SCOTLAND
AND WALES

72" 34" 12"
 HIGH WIDE DEEP

- ★ Brand new — manufactured in our own works.
- ★ Shelves adjustable every inch.
- ★ Heavy gauge shelves will carry 400 lb. each.
- ★ Stove enamelled dark green.
- ★ 6 shelves per bay—Extra shelves 8/- each.
- ★ Quantity discounts.

£3.15

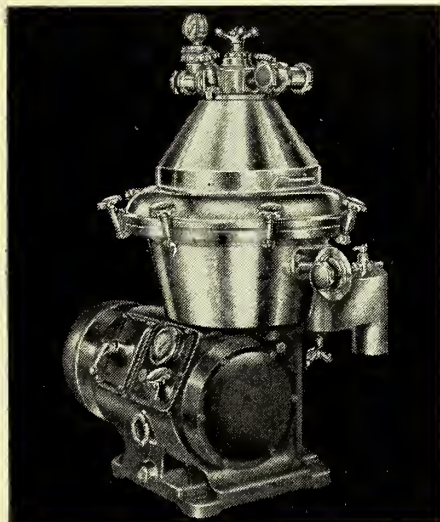
Also available in
White at £5 per bay

N.C.BROWN LTD

SHELVING DIVISION, HEYWOOD, LANCs. PHONE:- 69018 (6 lines)


DE LAVAL

IN THE PHARMACEUTICAL INDUSTRY



DE LAVAL CENTRIFUGAL CLARIFIERS

The quickest—most efficient and most economical way of CLARIFYING LIQUIDS!

All stainless steel contact where required, and hermetic construction available for materials where no air contact is permitted.

Capacities from 1 g.p.h. upwards.

A few typical products, in the preparation of which

De Laval Clarifiers are used by many leading manufacturers, include:—

Gland Extracts	Insulin	Riboflavin
Liquorice Extracts	Morphine	Vitamin B ₁₂
Senna Extracts	Quinine	Vaccines

And for capacities up to 6,600 g.p.h.

the new Self-Cleaning Clarifiers with automatic solids ejection—fully automatic control and no shut-downs for cleaning.

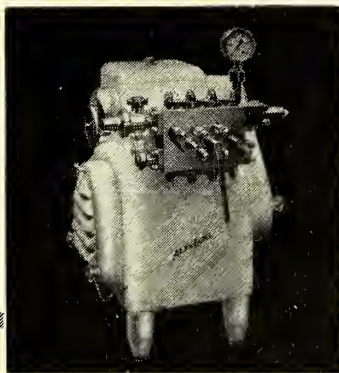
◀ *DE LAVAL All Stainless Steel Self-Cleaning Clarifier.*

DE LAVAL ASTRA HOMOGENISERS For your Pharmaceutical Emulsions

Capacities 55-2,200 g.p.h.

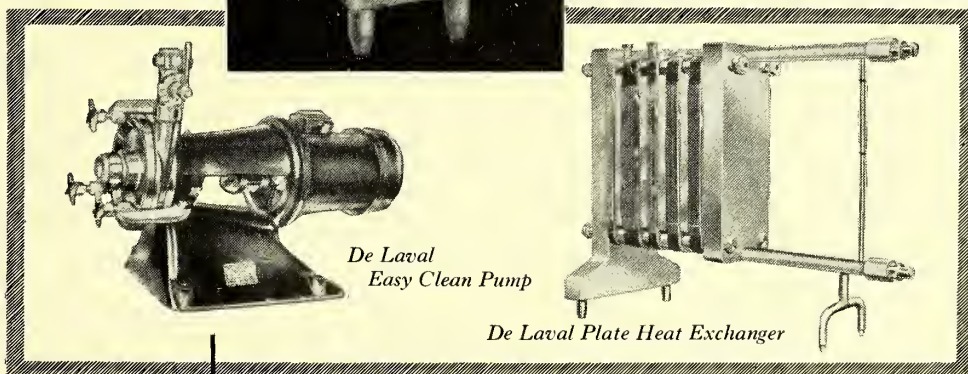
Pressures up to 4,000 p.s.i.

DE LAVAL 100 g.p.h. Homogeniser ▶



For counter current extraction — DE LAVAL SEPARATORS

De Laval Separators operating on counter current extraction principles are used by leading Penicillin and other antibiotic manufacturers—they give flexibility of operation—a clean separation and a very high degree of extraction.



*De Laval
Easy Clean Pump*

De Laval Plate Heat Exchanger

DE LAVAL Easy Clean Stainless Steel Pumps and Plate Heat Exchangers

for your pumping and heat exchange problems.

OR-LEM SOFT DRINKS FIXED RETAIL PRICES BEST VALUE FOR MONEY

Your customers will love the fresh, tangy taste of pure fruit in famous Or-Lem Squashes made with whole crushed oranges and lemons (also grapefruit, pineapple, lime juice cordial and lemon barley water). And you will save time and trouble because there is no bottle deposit and bottles are free.

Look at the range of products—compare the prices and the quality!

PURE LEMON JUICE

2/- half size (chemist 20/- dozen)
3/3 family size (chemist 30/6 dozen)

D'LISHUS WHOLE ORANGE DRINK

2/6 bottle (chemist 23/6 dozen)

OTHER

D'LISHUS SQUASHES 2/6 Bottle
sold only by chemists (23/6 dozen)

BLACKCURRANT SYRUP

2/6 half size (chemist 23/6 dozen)
4/3 family size (chemist 40/- dozen)

OR-LEM SQUASHES (all flavours)

2/9 bottle (chemist 25/6 dozen)

write for price list or send name of wholesaler now

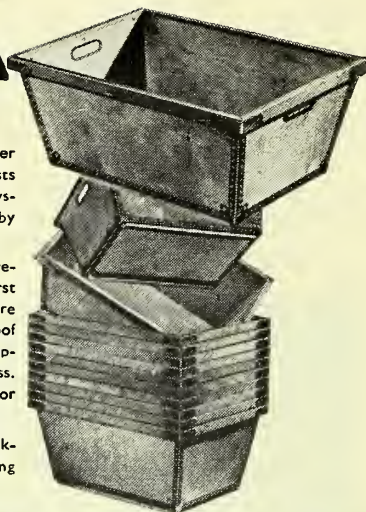
OR-LEM LIMITED, 77 MILLBROOK ROAD, SOUTHAMPTON.

CUT COSTS with PLYFA NESTING SKIPS

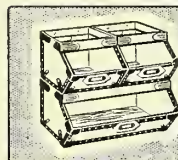
From wholesaler to retailer without repacking saves costs—now this well-proven system can be modernised by the NEW PLYFA skip.

Constructed from water resistant plywood and first quality hardwood. Pressure assembled with rustproof steel strip ensuring exceptional rigidity and lightness. A contemporary design for modern conditions.

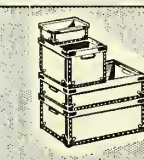
Especially suitable for stacking and mechanical handling systems.



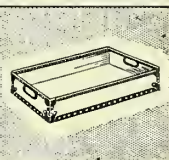
OTHER PLYFA CONTAINERS



Type BB



Type D



Type LI

Write for illustrated leaflet or ask our representative to call.

LURALDA LTD.

IBEX HOUSE, MINORIES, LONDON, E.C.3.

Tel. ROYal 1852

THOVALINE

for:—

BEDSORES

BEDSORES can be prevented by applying **THOVALINE** before the trouble starts but if already in existence will help greatly in healing.

BURNS

BURNS Unique action. **THOVALINE** is self sterile. It eliminates pain and is a rapid healer.

DERMATITIS

URINE DERMATITIS Excellent healing properties where rash exists and will prevent such trouble occurring if applied beforehand. Offensive odour is eliminated.

Supplies from your usual wholesale house:

ILON LABORATORIES

LORNE STREET • HAMILTON • LANARKSHIRE

Tel: HAMILTON 410



IT'S THE

ALDIS

SCREEN

The perfect partner for any projector!

METAL SLAT BAR

Keeps out dust, protects screen surface when stored, prevents rubbing and tearing.

FINER BEADED SURFACE

Finer beading minimises grain in projected image, and gives clear, sharp pictures.

METAL HANGER

Sturdy and practical design for added strength and rigidity. Screen leveller for uneven floors.

AUTO-LOCK

Permits full adjustability of height, and conversion from square screen for slides to oblong for movies.

BEAUTIFUL COLOURS

Distinctive colour combination used on slat bar, case and plastic parts for overall attractiveness.

These new ALDIS screens are really amazing value! They are beautifully made tripod screens, easily erected in a few moments. The screen surfaces are coated with fine glass beads for maximum light reflection, and the fine grain ensures good resolution and definition. The workmanship and finish is of very high quality.

Never before have such fine screens been available at such low prices.

Demonstrate the ALDIS screens—your customers will realise that it's what they've been wanting to complete their slide show enjoyment.

ALDIS SQUARE-40

For average-size rooms. 2" x 2" slide projector with 8.5 cm. lens will fill the screen at 8 ft. distance. **£5.19.6**

ALDIS SQUARE-50

For larger rooms and small halls. 2" x 2" slide projector with 8.5 cm. lens will fill the screen at 10 ft. 6 ins. 10 cm. lens will fill the screen at 12 ft. 6 ins. **£7.19.6**

Sole Wholesale Distributors:

NEVILLE BROWN & CO. LTD.,
77 NEWMAN STREET, LONDON, W.1

Tel.: LAN 7161 (10 lines) Trade Counter: 3 BERNERS MEWS, W.1 (rear of building)



SEBBIX

'Hairlines' Competition Results

1st **Dorothy Gain**
of E. J. Luck, 15, Southgate Street, Winchester, Hants,
wins a prize to the value of £100, and the shop a £10 prize.

2nd **Sandra Dunn**
of Boots, Chemists, 84, Newington Road, Edinburgh,
wins £50, and the shop a £5 prize.

3rd **Joan Fillingham**
of Coleman's Chemist Ltd., Huyton, Nr. Liverpool,
wins £25, and the shop a £3 prize.

CONSOLATION PRIZES

Winners of the 100 consolation prizes of 3 guineas each, will be hearing from us by post. A full list of all winners will be available on request.

SEBBIX SHAMPOO eliminates dandruff

GENATOSAN LIMITED, LOUGHBOROUGH, LEICESTERSHIRE



you'll **BLESS BAND-AID** *too*

Emergencies can't wait - and they don't have to with BAND-AID Dressings in their new wallet pack. **SAFE** - they are sterile in their individual wrappers. **EFFICIENT** - overall perforation means quicker, cleaner healing. **ECONOMICAL** - 10 waterproof BAND-AID Dressings for only 1/-. **HANDY** - the new slim pack fits pocket or handbag.

Retail price 1/- each
Trade price 8/7 per dozen



The photograph shown above is one of a series being used in our 1960 Advertising, telling your customers how essential BAND-AID Dressings are, whether at home, on outings or on holiday.

* **BAND-AID** is the registered Trade Mark of *Johnson & Johnson*

The first fully automatic blanket ever made in Britain is available now

IT IS CALLED the Monogram Automatic Blanket with *Sleep-Guard*, and it is as different from most of the electric blankets now sold as the Comet is from the Spitfire.

It is an over-blanket, and it is designed to be left "on" all night.

It is the *only* blanket that maintains the exact comfort you need for perfect sleep *all night*, because it adjusts automatically to changes in bedroom temperature.

It provides *maximum* protection against overheating, because its exclusive *Sleep-Guard* circuit shuts the blanket off *automatically* in the event of excessive warmth.

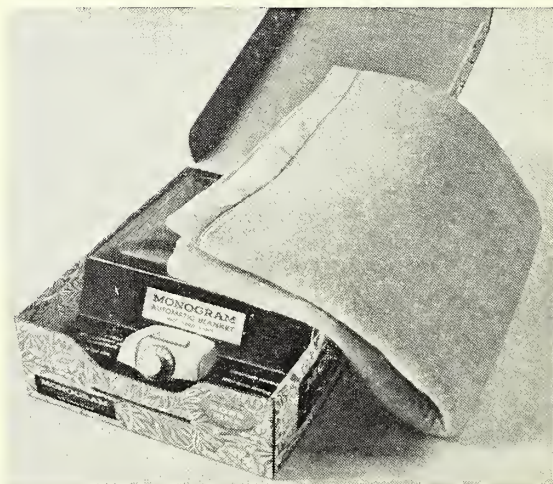
It is the only blanket with such a record of *proved satisfaction*. In America, more than 5 million people sleep under automatic blankets with *Sleep-Guard*.

Advertising for the Monogram Automatic Blanket commences in October. It will include an 8-page, 4-colour insert in the November Reader's Digest, 12 full-page ads. in the London Evenings, 24 full pages in local dailies, and a concentrated campaign of television spots on London and Southern transmitters. *It is by far the largest advertising campaign ever mounted for an electric blanket*, and will reach better than 4 out of every 5 adults in the launch area.

The Monogram Automatic Blanket will be available only in London and the South during 1960, but will be in national distribution by the autumn of 1961.

We honestly believe that it is one of the most exciting products to enter the electric appliance market since the war. And we expect it to sell accordingly.

For illustrated literature describing the Monogram Automatic Blanket in full, and to place your order, write or telephone the Monogram Sales Department.



MONOGRAM ELECTRIC LIMITED

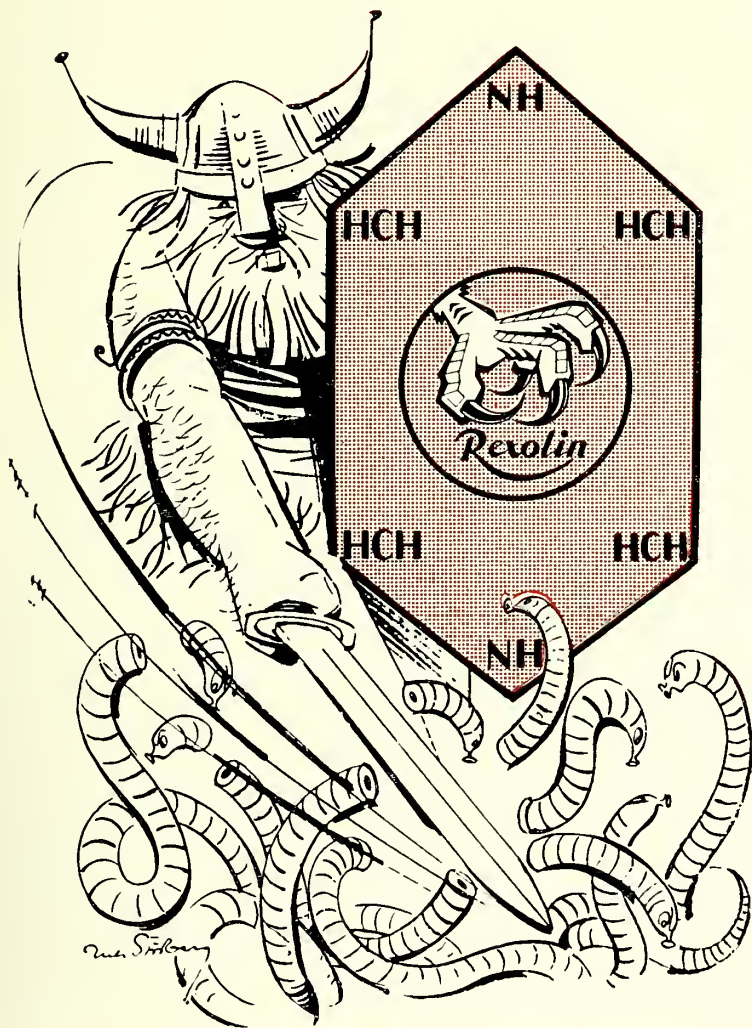
Gatwick Road, Crawley, Sussex

CRAWLEY 26261

296-302 High Holborn, London, W.C.1

CHANCERY 6302

PIPERAZINE



Piperazine Hexahydrate B.P.C.

Piperazine Adipate B.P.

Piperazine Citrate B.P.C.

Piperazine Phosphate B.P.

and other Piperazine derivatives

**REXOLIN
CHEMICALS**
HELSINGBORG · SWEDEN

United Kingdom Agents :—

LAKE & CRUICKSHANK LTD.

NORTH BRIDGE ROAD · BERKHAMSTED

Telephone : BERKHAMSTED 1880



**8 out of 10 women are being
reached regularly by the current
Tress advertising . . . so keep
Tress Wave Set right before the eyes
of your hair-conscious customers**



A creation of
L'OREAL • PARIS

TRADE TERMS

SMALL SIZE: Price 9/- per dozen bottles
plus 50% tax selling at 1/6 per bottle.

LARGE SIZE: Price 15/- per dozen bottles
plus 50% tax selling at 2/6 per bottle.

From your usual wholesaler or from:

GOLDEN LIMITED, 7 Grosvenor Street, London, W.1. Hyde Park 1671

Republic of Ireland enquiries to: Limer Pharmaceuticals Limited, Santry, Dublin

TELEGRAPHIC ADDRESS: INLAND - FEEDRITE WIMBLE LONDON OVERSEAS FEEDRITE LONDON

"FEEDRITE"
WONDER BABY
FEEDERS & SPARE
PARTS

FEEDRITE

DIRECTORS
E. L. MANCHES
S. J. LAMBERT, F.C.R., CHAIRMANPROGRESS HOUSE
300 KINGSTON ROAD
MERTON PARK LONDON SW20
TELEPHONES LIBERTY 3443/4

OUR REF. LH/CP...

YOUR REF.

DATE

To the Retail Pharmacists,
in the United Kingdom.

Gentlemen,

As you know, the principal function of the Feedrite Baby Feeder is the retention of heat throughout the baby's feed, and the fact that our product enjoys a wide sale is, in no small measure, the result of the co-operation we receive from the Pharmaceutical Profession.

FROM JULY 1st, however, we are introducing the FEEDRITE "EXTRA", which has been specially designed for the greater retention of heat over longer periods and will be particularly applicable, therefore, to night feeding and of enormous value for use when travelling.

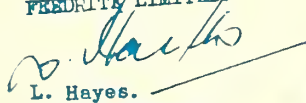
The introduction of the FEEDRITE "EXTRA" is NOT as a replacement of the Feedrite Baby Feeder, as we shall continue to market our original product, as hitherto.

Commencing 1st July we are embarking on a nation-wide advertising scheme in the principal women's books, and certain of the National Daily and Sunday Press. This is being supported by a nation-wide liaison with Clinics, where in many cases demonstrations of our new product will be given.

The Feedrite "EXTRA" will retail at 7/11d complete. It is packed in a very attractive carton and is obtainable from all Wholesalers at a price to allow the normal trade discount.

We shall be very pleased to send any Pharmacist a supply of leaflets embracing the Feedrite Feeder, the Feedrite "EXTRA" and the Feedrite Anti-Colic Teat.

In thanking the Pharmacist for his past support we also thank him in anticipation of his support in the future.

Yours faithfully,
FEEDRITE LIMITED.

L. Hayes.
General Manager.

Baby Business is Big Business



BOOTS' 365 TALCUMfilled by **ALBRO**

Yet another important organisation selects ALBRO machines for high output.

The ALBRO 2-head powder-filler illustrated here is being used by Messrs. Boots Ltd. to fill their 365 Talcum Powder.

Operated by unskilled labour, this machine can fill bottles, tins, cartons or drums of up to 1½ lb. capacity at speeds of up to 3,600 per hour, depending on the size of container.

The exclusive vacuum operation ensures completely dustless filling—is so efficient that specially reduced insurance rates are obtainable when powders of a deleterious or abrasive nature are filled.

Other models are available with outputs of up to 7,200 containers per hour.

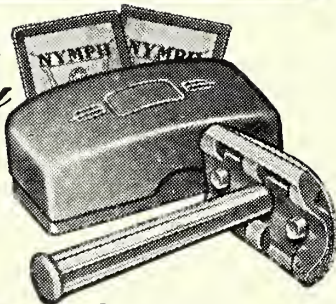
Ask for details or a demonstration.

**ALBRO Filling Machines**

for Liquids, Powders & Pastes

ALBRO FILLERS & ENGINEERING CO. LTD.,
WHARF ROAD, PONDERS END, MIDDLESEX

Telephone: Howard 2622 (5 lines)
Telegrams: Albromach, Enfield

*A Gift a Woman
gives Herself...**Counter
display
ensures
quick
sales***Nymph** *ladies'
safety razor*

Backed by national
advertising



Every woman is a possible buyer of this dainty toilet accessory. Reasonably priced at 3/6d. to ensure spontaneous purchase! Complete in moulded case with 2 blades, in PINK, BLUE, GREEN, "Nymph" Blades in cartons of 6 blades, 1/5d.

Obtainable from your usual wholesaler.

▲ PRECISION-MADE **SOUPLEX** PRODUCT

SOUPLEX LTD., MORECAMBE, LANCs.

Keep your

**TABLET
CARTONS**

tidy

★

SIZES 2, 3, 4, 5
now supplied in
RIGID BOXES
containing 1000
cartons

by

SUTTLEY & SILVERLOCK

ANDOVER, HANTS

TEL. 2234



unhappiness
embarrassment
insecurity
the cruel companions of acne

Eskamel for acne



ESKAMEL—sulphur, resorcinol and hexachlorophene in a special grease-free, flesh-tinted base—brings rapid improvement in acne, often in a few days. 'Eskamel' raises the patient's morale: the flesh-tinted base masks unsightly acne lesions, and is virtually invisible when applied.

Price to public (Inc. P.T.) 4/11d. per 1 oz. tube

FORMULA: Resorcinol 2%, sulphur 8%, hexachlorophene 0.25%
w/w in a stable grease-free, flesh-tinted base.



Millions of T.V. Viewers will see this Advertisement every week until the end of June

"That's my Girl!"

SHE USES

Velouty
de DIXOR
POWDER CREAM

Tubes 1'3 & 2'1 Jars 2'11

From Chemists & Chain Stores



Be prepared for the increased demand which television and press advertising must create. Order from your wholesaler NOW. Be sure of satisfying your customers. Display Velouty Powder Cream on your counter NOW.

Prices:

Tubes No. 2.	No. 3.
Trade 7/6 doz.	12/3 doz.
Retail 1/3 each.	2/1 each.

Jars: Trade 17/2 doz.
Retail 2/11.

DIXOR Ltd.
ST. LEONARD'S ROAD
MORTLAKE, LONDON, S.W.14

Write direct for showcard to link with this campaign

**TANNIC
ACID**

ALL QUALITIES

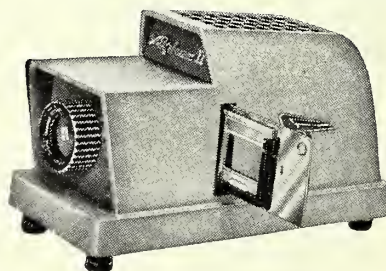
**THE
BRITISH DYEWOOD
Company Limited**

19 ST. VINCENT PLACE
GLASGOW, C.1



**AN OUTSTANDING
PROJECTOR AT AN ASTOUNDING
PRICE!**

ALPHAX I BABY



For 35 mm.—Bantam
and 4 x 4 cm. colour
transparencies.

£8. 19. 6

Lamp, extra—21/9d.

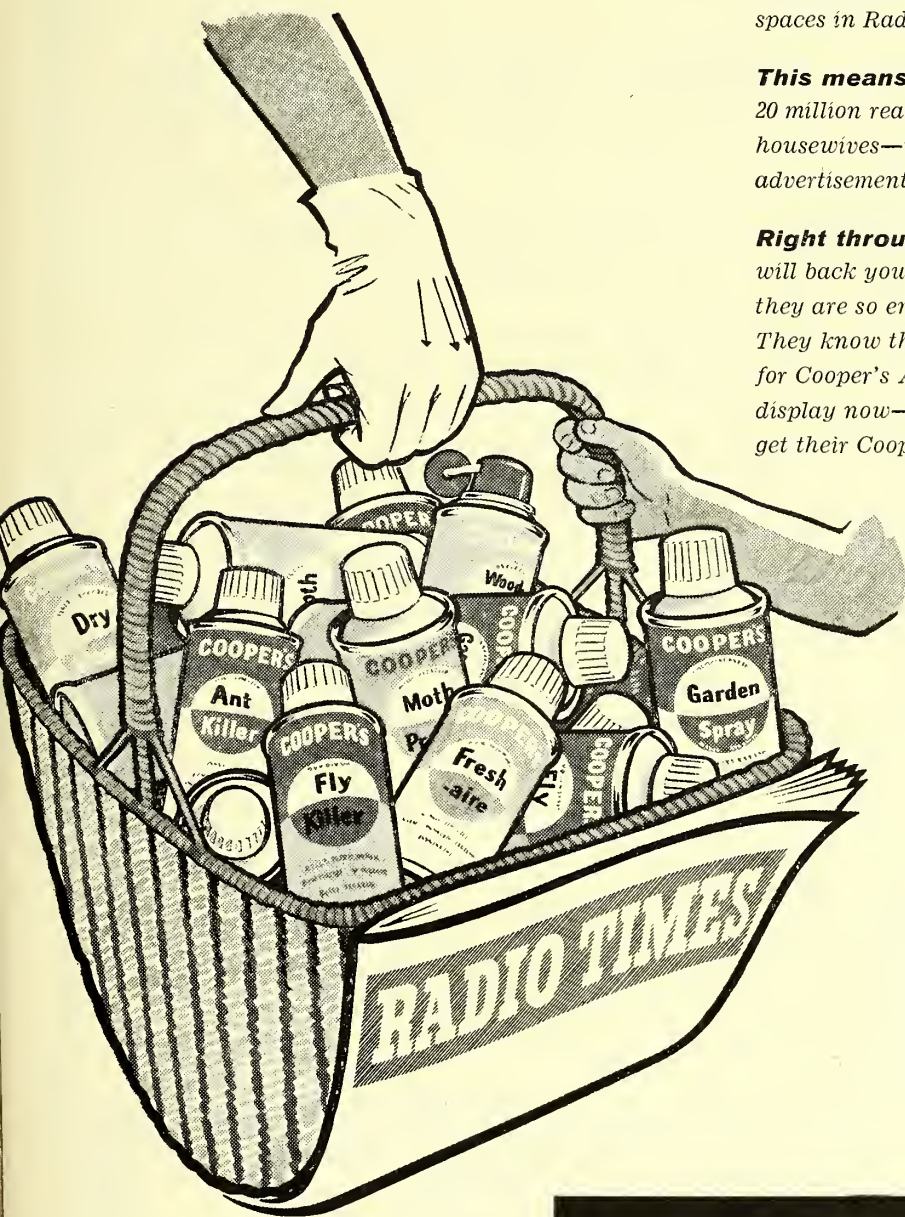
Details and counter leaflets from:
GNOME PHOTOGRAPHIC PRODUCTS, LTD.,
CAERPHILLY RD., CARDIFF.

**It pays you
to display
COOPER'S
Aerosols
because . . .**

Cooper's have gone all out to create the demand for you! Their biggest ever range of aerosols for the home will be backed by national advertising, spearheaded by big spaces in Radio Times.

This means that regularly more than 20 million readers—including 9 million housewives—will see these Cooper advertisements in Radio Times.

Right through the Summer Cooper's will back you up in Radio Times. No wonder they are so enthusiastic about your future sales. They know there will be plenty of customers for Cooper's Aerosols. So get your stocks on display now—see that your customers get their Cooper's from you!



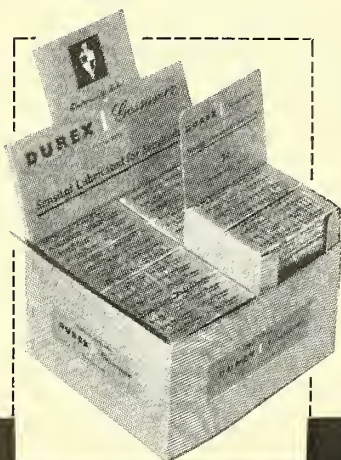
**Stock and display
goods advertised in**

RADIO TIMES



ENORMOUS PUBLIC DEMAND FOR **DUREX** *Gossamer*

Sensitol
lubricant
gives super-
sensitivity*



From the first day that DUREX Gossamer was introduced, the public have recognised that here was the super-sensitive protective they had been waiting for. Millions of established DUREX users have already changed to Gossamer. And — even more important — DUREX Gossamer has created an entirely new class of protective user . . . people who had never used protectives before.

This is the real DUREX Gossamer success story. Not only has it held existing customers at a higher rate of turnover, but *it has created an enormous new market with previous non-users to whom the ordinary protective is unacceptable.*

No one could have foreseen the tremendous demand for a lubricated protective. The success of DUREX Gossamer has proved that it exists — *and will grow week by week.*

Make sure you get your share of this profitable business. Keep your stocks at a sufficient level to meet the growing demand, and display a shelf strip so your customers will know you sell DUREX Gossamer!

*The secret of DUREX Gossamer is Sensitol — an exclusive “non-wet”, “non-messy” lubricant discovery specially developed to increase sensitivity.

Put this discreet perspex
shelf strip on display

LONDON RUBBER CO. LTD. HALL LANE, LONDON, E.4.

SILverthorn 7091




The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

Telephone: CENTRAL 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON W.C.2

Specialty spaced Advertisements, including:—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 20/- per 1/4 inch minimum and pro rata, Box 2/-, Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 20/- for 36 words minimum; then 6d. per word, Box 2/-, Situations Vacant, 15/- for 36 words minimum, then 6d. per word, Box 2/-, Situations Wanted, 3/- for 18 words minimum then 3d. per word, Box 1/-, Specially displayed advertisements with rule all round, 50/- per inch minimum.

ORRIDGE & COMPANY

184 STRAND, W.C.2

Tel: TEMple Bar 9212/3 & 6340

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL

BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

BUSINESSES FOR DISPOSAL

DENBIGHSHIRE. Drug Store comprising shop and good living accommodation. Corner premises centre of village. Electric light, main water and sewerage. Present business established over 60 years. Present proprietor retiring after 35 years. Splendid opportunity for M.P.S. Accountants figures available. Substantial annual turnover. Stock and fixtures at valuation. Freehold and goodwill (including Registered Trade Mark) for sale at reasonable price. For further particulars apply Longueville & Co., Solicitors, 3 Upper Brook Street, Oswestry, Shropshire. C 3035

DRUG STORE FOR SALE. Modern lock-up shop in busy West Midland town. Many excellent agencies. Suit pharmacist. High-class trade with scope for expansion. Genuine reason for selling. Principals only, please, Box C 3034.

EAST SURREY, LONDON BORDERS. Really first-class, well-established business in centre of busy attractive Thames-side town. Exceptional opportunity to acquire an expanding business in excellent modern well equipped premises, 10-year lease at favourable rental. Turnover nearly £30,000 p.a. giving net profit over £4,000. Ample display and storage facilities and excellent staff available. Owner retiring, requires £20,000 inclusive for goodwill, stock, lease, fittings, etc., and purchase price by instalments, if necessary. Box C 3042.

FOR SALE, privately, old-established business of Chemists and Druggists, wholesale and retail, with commodious shop premises on excellent site in busy main street in large Scottish East Coast City (and adjoining proposed central re-development area) together with one floor above and good cellar accommodation for storage. Principals of business wish to retire. For further particulars and viewing arrangements apply to Hendry & Fenton, Solicitors, 4 High Street, Dundee, with whom offers should be lodged. C 3026

APPOINTMENTS

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacists

Salary 18 guineas a week. Vacancies:—
11th to 16th July 1960.
12th to 24th Sept. 1960.

Apply to Chief Pharmacist, Bethnal Green Hospital, Cambridge Heath Road, London, E.2. C 523

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

Locum Assistant-in-Dispensing (Apothecaries' Hall Certificate) required July 11 to 23, 1960, £10 16s. per week. Apply Secretary, Forest Group H.M.C., Langthorne Road, E.11. C 5589

BLACK NOTLEY HOSPITAL, BRAINTREE, ESSEX

Locum Pharmacist required for the period 3rd to 23rd August, 1960. Resident or non-resident. Applications to the Hospital Secretary. C 5556

HIGHLANDS GENERAL HOSPITAL, WINCHMORE HILL, LONDON, N.21

Pharmacist, Assistant (Registered) required at Highlands General Hospital, Winchmore Hill, N.21. Whitley Council Salary. Applications stating age, qualifications and experience with copies of testimonials or names of two referees to Hospital Secretary. C 5607

HILL END HOSPITAL, ST. ALBANS, HERTS

Dispensing Assistant required at above Hospital 20 miles from London on frequent Green Line coach service. Commencing salary according to age and experience rising to a maximum of £535 per annum plus £50 per annum for possession of the Apothecaries' Hall Certificate. Apply with details of experience, naming two referees, to the Hospital Secretary. C 541

KING EDWARD VII HOSPITAL, WINDSOR

Pharmacist required. Commencing salary £690-£815 p.a. according to experience. Late clinics up to six hours per week at 12s. 6d. per hour. Newly qualified Pharmacist welcomed. Applications with two referees to Secretary. C 5594

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11 (Acute General, 499 beds)

Deputy to the Chief Pharmacist required. Salary in the scale £815-£1,110 p.a. plus L.W.A. according to experience. Applications stating age, qualifications and experience and giving names of two referees to the Secretary. C 537

LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist

required—Salary £690-£920 according to previous experience and service. Applications to House Governor. C 522

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

Locum Pharmacist

required. Modern Department. Salary 18 gns. per week. Applications with details of age, training and experience to the Hospital Secretary. C 529

NEASDEN HOSPITAL, BRENTFIELD ROAD, N.W.10

Pharmacist (Full-time)

Applications are invited for the above post, basic grade. To commence duties as soon as possible. Applications to Hospital Secretary. C 540

NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE, NEWARK HOSPITAL (70 Beds) and NEWARK HAWTONVILLE HOSPITAL (139 Beds)

Chief Pharmacist (Category II)

Applications are invited for the appointment of Chief Pharmacist (Category II) at the above Hospitals but based at the Newark Hospital. Salary scale £892 rising to £1,200 per annum maximum. Duties to commence forthwith. Applications stating age, qualifications and experience together with copies of two testimonials to be sent to the Group Secretary, General Hospital, Nottingham, as soon as possible. C 5586

QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON, SURREY

Assistant-in-Dispensing

with approved qualifications required for general dispensing at the above hospital. Salary according to Whitley Council scales, plus London Weighting. Applications, stating age and experience together with the names and addresses of two referees, to the Group Secretary. C 546

ERNEST J. GEORGE & CO.

329 HIGH HOLBORN, LONDON W.C.1.

Telephone: HOLBORN 7406/7

*Professional Valuers to the Pharmaceutical Trade.— Wholesale, Retail and
Hospital Stocks. Branches throughout England and Scotland.*

Appointments—Continued**NOTTINGHAM No. 1 HOSPITAL
MANAGEMENT COMMITTEE,
HIGHBURY HOSPITAL,
BULWELL, NOTTINGHAM
(332 Beds)**

Pharmacist
Applications are invited for the appointment of Pharmacist. The post offers good opportunity to obtain experience in general pharmaceutical work. Salary £690 x £30 to £920. Applications stating age, qualifications, experience and names of two referees, to be sent to the Group Secretary, General Hospital, Nottingham. C 5585

**SEAMEN'S HOSPITALS
MANAGEMENT COMMITTEE**

Pharmacist
required for duties under Chief Pharmacist at Dreadnought Hospital, Greenwich. Salary and conditions of service in accordance with Whitley Council regulations. Applications stating age, qualifications and experience, together with the names and addresses of two referees, to be sent to the Group Secretary, Dreadnought Seamen's Hospital, Greenwich, S.E.10. C 536

**SEAMEN'S HOSPITALS
MANAGEMENT COMMITTEE**

Locum Pharmacist
required at Dreadnought Hospital, S.E.10, from 4th-30th July, and from 5th September. Apply with particulars of previous experience to House Governor. C 542

**SHREWSBURY HOSPITAL
GROUP**

Pharmacist
for duties at the Royal Salop Infirmary, Shrewsbury, and other Group Hospitals. Vacancy for post-graduate apprentice at the Royal Salop Infirmary. Whitley Council scales. Apply in writing to Group Secretary, Copthorne Hospital, Shrewsbury. C 5565

**ST. JAMES'S HOSPITAL,
PORTSMOUTH**

Locum Pharmacist
required, two weeks July, August or September. Salary £18 18s. per week. Applications to Group Secretary. C 5592

**SHREWSBURY HOSPITAL
GROUP,
ROYAL SALOP INFIRMARY**

Locum Pharmacist
required for periods up to three weeks during June/July, August/September. Salary £18 18s. per week. Applications to Group Secretary, Copthorne Hospital, Shrewsbury. C 5566

**ST. ALBANS CITY HOSPITAL
(394 beds),****NORMANDY ROAD,
ST. ALBANS, HERTS**

Locum Tenens Pharmacist
required from 12th to 24th September, 1960, and also for any one or two weeks during the period 22nd August to 1st October, 1960. Salary £18 18s. per week. Applications stating age, qualifications, experience and naming one referee to the Chief Pharmacist. C 538

**SHREWSBURY HOSPITAL
GROUP**

Assistant-in-Dispensing
for duties at the Royal Salop Infirmary, Shrewsbury, and other Group Hospitals. Whitley Council scales. Apply in writing to Group Secretary, Copthorne Hospital, Shrewsbury. C 5567

**SPRINGFIELD HOSPITAL,
LONDON, S.W.17**

Locum Chief Pharmacist
required, 15th—27th August inclusive, £18 18s. p.w. Applications to: Group Secretary, giving details of experience, qualifications, etc. C 5543

**SPRINGFIELD HOSPITAL,
LONDON, S.W.17**

Senior Pharmacist
required. Whitley Council salary scale and conditions of service. Applications immediately to: Group Secretary, Springfield Hospital, Beechcroft Road, London, S.W.17, giving age, qualifications, details of experience and names of two referees. C 5542

**BURROUGHS WELLCOME & CO.**

DO YOU WANT TO BE RIGHT AHEAD? . . . right ahead in knowledge of medical progress?

Then, you will be interested in a position as Assistant to our Medical Information Officer. The work, which involves keeping abreast of current developments and close contact with our Research Departments, is varied and interesting. The ability to write well and lucidly is essential. If you have a pharmaceutical or medical qualification and would like to know more about the work, please write to:

**THE PERSONNEL MANAGER,
THE WELLCOME FOUNDATION, LTD.,
THE WELLCOME BUILDING,
183-193 EUSTON ROAD,
LONDON, N.W.1.**

C 5583

**ST. STEPHEN'S HOSPITAL,
FULHAM ROAD,
CHELSEA, S.W.10****Locum Tenens Pharmacist**

required immediately, £18 18s. weekly. Apply: Chief Pharmacist. C 5575

**ST. STEPHEN'S HOSPITAL,
FULHAM ROAD,
CHELSEA, S.W.10****Assistant-in-Dispensing**

required immediately. Terms by arrangement. Apply Chief Pharmacist. C 5574

**THE ROYAL INFIRMARY
OF EDINBURGH & ASSOCIATED
HOSPITALS****(1,452 beds)****Pharmacists**

Applications are invited from suitably qualified candidates. Previous hospital experience an asset. Salary scale £690-£920 per annum, with entry according to age and experience, but not exceeding £815 per annum. Locum pharmacists are also required from now until end of September. Approved health service scales apply. Interested candidates should write to the Personnel Officer, Royal Infirmary, Edinburgh, 3, giving the names of two employer referees. C 5595

**WESTMINSTER HOSPITAL,
S.W.1.****Locum Pharmacist**

required to cover Summer Vacation period. 18 guineas per week. Details from Chief Pharmacist. C 545

**WEST PARK HOSPITAL,
EPSOM, SURREY****Assistant-in-Dispensing**

(with Apothecaries' Hall Certificate) required in active psychiatric hospital. Salary and conditions of service in accordance with National Health Service Regulations. Applications with the names of two referees should be sent as soon as possible to the Group Secretary, who will be pleased to provide further information on request. C 539

**WILSON HOSPITAL,
CRANMER ROAD,
MITCHAM****Locum Chief Pharmacist**

required for duties at above hospital and Wandle Valley Hospital from August 8 to August 27. Salary £18 18s. per week. Apply with particulars to the Group Pharmacist, St. Helier Hospital, Carshalton, Surrey. C 5548

**YORK "A" AND TADCASTER
HOSPITAL MANAGEMENT
COMMITTEE,
CITY HOSPITAL,
HAXBY ROAD, YORK****Post-graduate Pharmaceutical Students**

required for duty at the above Hospital, commencing September 1960. Whitley Council conditions of service, salary £400 per annum. Applications giving details of age, education, qualifications and names of two referees to Hospital Secretary. C 5502

SITUATIONS VACANT**RETAIL (HOME)**

LONDON, E.C.1. MANAGER required with experience in retail pharmacy. Modern ethical shop with spacious dispensary. Good dispensing business combined with high-class toilet agencies. First-class salary and non-contributory pension and assurance. Flat available if required. Permanent, progressive position. Apply, Superintendent, Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1. TERMINUS 9494. C 3041

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for the position of pharmacy branch manager, either sex. Modern accommodation available if necessary. Superannuation. Salary and other emoluments at least £960. Applications giving age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. C 454

PART-TIME PHARMACISTS: experienced in retail, N.1, N.16, E.C.1, and Ilford pharmacies. 6-8 p.m., and Sunday mornings required, 10/- per hour, dispensing duties, modern, well-equipped dispensaries. Apply, Head Office, Kendale Dispensing Chemists, 51 Exmouth Market, London, E.C.1. TERMINUS 9494. C 3040

YORKSHIRE-DERBYSHIRE border. Manager required to open new business. Guaranteed minimum salary to commence with; three-bedroomed accommodation above. Pleasant position with no near opposition. Not council estate. Box C 3049.

OPPORTUNITY to join world-famous organisation for training for a responsible well-paid career in which personality, patience, and interest in health matters are all required. Energetic men and women, with ambition, aged 24 to 30, ready to undertake interesting training course in London, should apply with fullest possible details of career to date to: Personnel Manager, The Scholl Mfg. Co. Ltd., 182 St. John Street, E.C.1. C 5606

WHOLESALE

EVANS MEDICAL LIMITED have vacancy for Stockkeeper in Proprietaries Department. Applicant should apply in writing stating age and details of previous experience to General Manager, Evans Medical Ltd., Ruimsip. C 5608

LONDON manufacturers of ethical products have opening for representative to call on profession and trade. Position involves continuous travel on Continent and overseas after initial training. Knowledge of Spanish or Italian desirable. Box C 544.

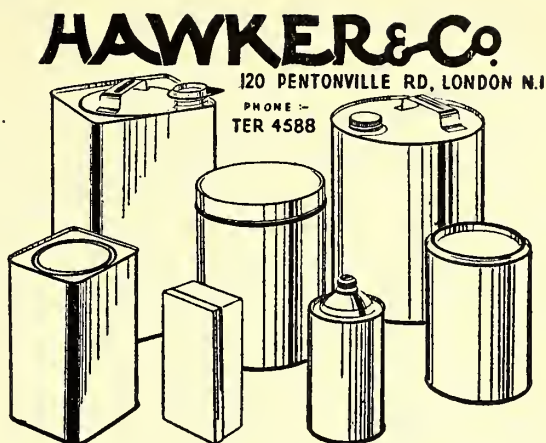


**Lederle Laboratories Division
CYANAMID
OF GREAT BRITAIN LIMITED**
require a
MEDICAL REPRESENTATIVE
for
**NORTH WALES
(ANGLESEY TO MONTGOMERY)**

This appointment provides an opportunity for a man with initiative in an established and rapidly expanding organisation. Preference will be given to Welsh-speaking candidates, with a pharmaceutical or medical background and/or previous selling experience in this field. Age preferred 25-35. Good commencing salary and employee benefits, including excellent Pension/Life Assurance scheme; Company car (renewed annually), travelling expenses. Suitably detailed applications, which will be acknowledged, should be addressed, in complete confidence, to:

**Personnel Manager,
CYANAMID OF GREAT BRITAIN LIMITED
Bush House, Aldwych, London, W.C.2.**

C 5599



HAWKER & Co.

120 PENTONVILLE RD, LONDON N.1

PHONE -
TER 4588

QUEEN

Non Irritant

BEAUTY PRODUCTS

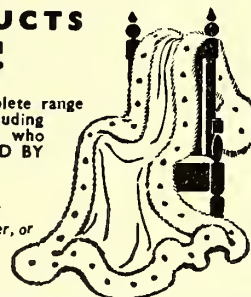
THE SAFETY FACTOR IN
EVERY DAY MAKE-UP

Queen beauty products form a complete range of toilet and beauty preparations, including lipsticks, specially for those women who have sensitive skins. **RECOMMENDED BY THE MEDICAL PROFESSION.**

New terms give 33½% discount.

Obtainable from Messrs Sangers Ltd., and Allied Companies, through your Wholesaler, or direct from

BOUTALLS CHEMISTS LTD.,
60 Lambs Conduit St., London, W.C.1



Situations Vacant—Continued

MACARTHYS

(WHOLESALE CHEMISTS) LTD

PHARMACIST REQUIRED

MACARTHYS (Wholesale Chemists), LTD., require a pharmacist to take charge of compounding and dispensing laboratories in Romford. (Romford Laboratories Ltd.) This post would suit lady or gentleman with Ph.C. or B.Pharm. qualifications who is interested in practising pure pharmacy. Some manufacturing or hospital experience would be an advantage but is not essential. Forty-hour week and attendance on alternate Saturday mornings only. This post is pensionable and carries good chances of advancement. Existing holiday arrangements honoured.

Write or telephone for appointment,

**Macrom House,
Seyner Road, Romford, Essex.
(Tel.: Romford 46021)**

C 5604

PHARMACEUTICAL MANUFACTURER requires the services of a young pharmacist or chemist for research and development work on new ethical products. Experience and initiative is of more significance than qualifications, although these are desirable. Considerable help and guidance will be given in the initial stages of any new work. State age and experience in detail and salary required to Box C 3038.

REPRESENTATIVES. You can now add at least £6 weekly to your income for very little spare-time effort by introducing the world-famous "All-in-One" self-checking business account book, adaptable to all trades (published 40 years). Particulars from Account Books, Ltd., 379 High Road, Chiswick, London.

C 3036

ETHICAL PHARMACEUTICAL SALES MANAGER

Exceptional man required to establish and run U.K. Ethical Sales organisation for prominent U.S. pharmaceutical company. Must have successful experience in this field, and a flair for pharmaceutical promotion, mailing and advertising, with good contacts in the medical profession. A pharmaceutical or similar qualification is desirable; selling ability is essential. Golden opportunity to create a career with a young, virile company in U.K., which has no Ethical staff at present. Other employees have been informed of this appointment.

Probable age 30 to 40. Generous salary, etc. Reply in strict confidence to Box C 5596.

STAFFORD ALLEN & SONS LTD.

have a vacancy for a representative for the Midlands area. The work involves calling on manufacturing and wholesale houses in the Pharmaceutical and Food industries. The position is a most responsible one and offers first-rate opportunities. A technical qualification is an advantage but not essential. Car provided, pension scheme, etc. Write to the Managing Director, 20 Wharf Road, London, N.1. C 5597

STAFFORD ALLEN & SONS LTD.

have a vacancy for a keen and experienced executive for an expanding department selling to the manufacturing food industry. The position offers exceptionally good opportunity and responsibility. Applicants must have a sound knowledge of selling systems, campaigns, etc. Write in confidence, giving full particulars to the Managing Director, 20 Wharf Road, London, N.1. C 5598

TABLET GRANULATOR, experienced required. Good wages and conditions. Holiday honoured. No Saturdays. Write, call or phone Mark Morris, Pharmacal Supplies, Ltd., Green Lane, Hounslow, Phone: Hounslow 8615.

C 543

TABLET MAKER required for modern factory in West Middlesex. No experience in coating required. Five-day week, canteen, pension scheme. Apply giving particulars of past experience and salary required to Box C 3039.

WORKS MANAGER. An opening will occur shortly in an important firm of toilet preparation manufacturers in North London. Applicants should be fully conversant with the running of a modern factory and be able to control staff. Send full particulars and state salary required to Box AC 19345, Samson Clarks, 15/17 Marylebone Road, N.W.1.

C 5603

WANTED. An energetic, reliable, and adaptable man or woman for various duties (some knowledge of sewing machines an advantage) in a small old-established Surgical Appliance business near London. With a view to becoming a working Partner. State usual particulars in confidence, to Box C 3048.

SALES MANAGER (30 to 45) required by expanding South Wales Company supplying wholesale/retail chemists, hardware dealers and retail stores. Salary commensurate with experience. Car provided. First-class opportunity for man of drive and ability. Box C 5605.

Do you need national distribution to retail chemists?

We are members of an important group of manufacturing chemists and we have an efficient and highly trained sales force. If you are looking for a sole selling agent for a chemist line, please contact us: we believe we can help you.

Please write: Box C 5579

ROCHE THE CHANCE OF A STEADY CAREER

Opportunities are offered to outstanding young men with drive and initiative wishing to start as medical representatives. A pharmaceutical qualification/experience or equivalent academic attainment essential. A vacancy occurs in:

Northumberland and part of Durham.

Applications are also invited from other parts of the U.K. for a training course commencing in October.

Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First-class candidates desiring success and security should apply with full details to the Secretary, Roche Products Limited, 15 Manchester Square, London, W.1. Applications will be treated as confidential.

C 5569

Production Pharmacist

A Swiss company of international repute wishes to appoint an experienced pharmacist, preferably under 35, to its Headquarters Staff in Basle.

The position will entail residence in Basle. A working knowledge of German is very desirable and some knowledge of French would be an advantage.

The successful applicant must have had a wide experience in the compounding and packaging of all types of pharmaceutical products and also some experience in production planning and management. He will act as Liaison Officer between the Basle H.Q. and the manufacturing organisations in affiliated companies in English-speaking countries throughout the world and will pay regular visits to those countries in a consultant capacity.

Applications should be made in the candidate's own handwriting giving qualifications, experience, etc., the names of two referees and also a recent photograph to Box C 5593.

The Government of Northern Nigeria

requires two ASSISTANT GOVERNMENT CHEMISTS on contract for two tours each of 15–24 months.

QUALIFICATIONS:

1st or 2nd Class Honours Degree in Chemistry, and/or Associate Membership of the Royal Institute of Chemistry under arrangements in force up to 1st July, 1956, or Graduate Membership of the Royal Institute of Chemistry under the arrangements brought into force on 1st July, 1956, with preferably a minimum of 2 years post-graduate experience. Experience in analysis of drugs, foodstuffs and water desirable.

DUTIES:

general chemical analysis including analysis of food, drugs, water and court exhibits. Bacteriological analysis of water and tinned foodstuffs. To tour occasionally in the Northern Region with a mobile laboratory in connection with the investigation of water supplies, and inspection of existing supplies.

EMOLUMENTS:

- (1) Salary—on an incremental scale, gross minimum £972, maximum £2,046, starting point according to amount of experience.
- (2) Children's Allowance—£120 per one child, £216 for two, £288 for three children eligible.
- (3) Clothing Allowance of £45 on first appointment.
- (4) Resettlement grant of £25 or £37 10s. for every three months service inclusive of earned leave payable on satisfactory completion of contract.
- (5) First-class passages for officer and wife on appointment and on leave, and assistance towards children's passages.

LEAVE:

generous home leave on full pay.

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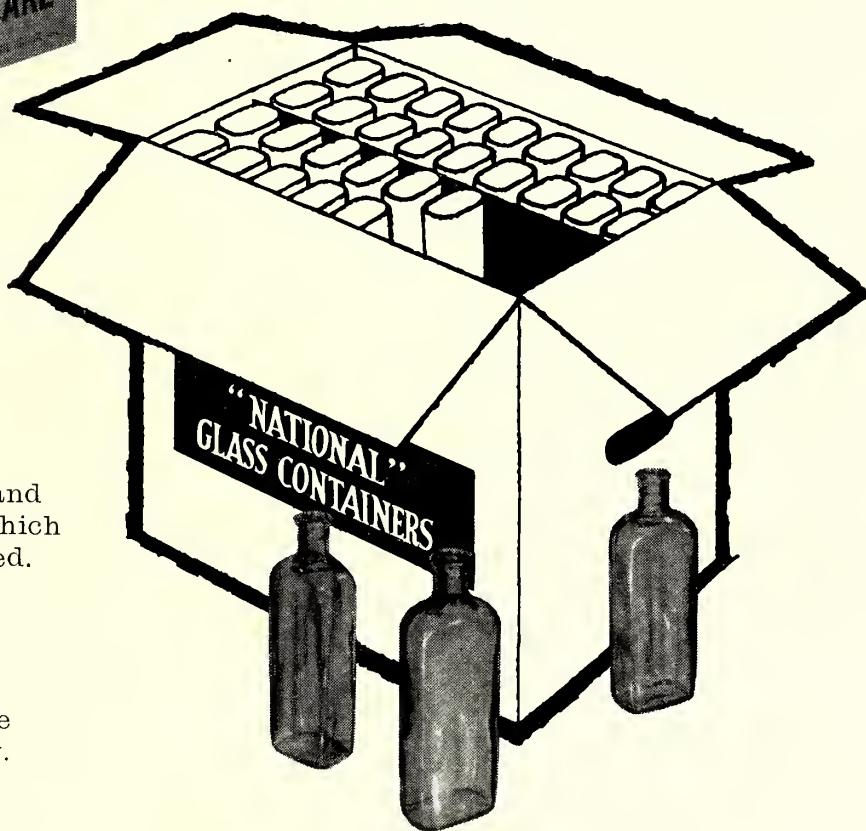
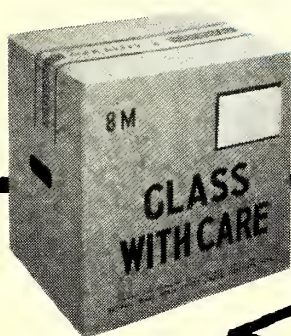


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